Zhiyuan College Seminars
(2010-2016)

By the September of 2016, Zhiyuan College has formally organized more than 800 academic seminars on diverse topics by inviting world's distinguished scholars to communicate with students, with the purpose of creating top-notch academic environment, broadening students' horizons, and stimulating students' curiosity. The students as well spontaneously organize a number of academic activities.

Zhiyuan College Academic Seminars, 2010 (42)

Date	Speaker	Affiliation	Title
2010/3/1	Anthony J. Leggett	*Nobel Laureate in Physics* University of Illinois at Urbana-Champaign	Ultracold Fermi Alkali Gases: Bose Condensation Meets Cooper Pairing
2010/3/17	Hushan Xu	Lanzhou Institute of Modern Physics, Chinese Academy of Sciences	National Nuclear Science Facility, HIRFL
2010/3/29	Juergen Jost	The Max Planck Institute for Mathematics	Graphs and the Mathematical Analysis of Networks
2010/3/31	Juncheng Cao	Shanghai Institute of Micro system and Information Technology, Chinese Academy of Sciences	Terahertz Physics, Devices and Its Application
2010/4/7	Yugang Ma	Shanghai Institute of Applied Physics, Chinese Academy of Sciences	The Discovery of Anti-Matter Hyper Nucleus
2010/4/14	David Gross	*Nobel Laureate in Physics* Kavli Institute for Theoretical Physics, University of California, Santa Barbara	The Future of Physics
2010/4/28	Xiaolin Lei	Department of Physics, Shanghai Jiao Tong University	Microwave Radiation in Two Dimensional Semiconductor with High Mobility, Magneto Resistive Oscillations of DC Current and Acoustic Phonon Excitation
2010/5/5	Huiqiu Yuan	Department of Physics, Zhejiang University	Magnetism and Superconductivity in Correlated Mate
2010/5/12	Ping Huai	Shanghai Institute of Applied Physics, Chinese Academy of Sciences	Photon/Particle Beam Induced Phase Transition in N
2010/5/12	Mufa Chen	Department of Mathematics, Beijing Normal University	Phase Transition and Principle Eigenvalue
2010/5/14	Qing Wang	Department of Physics, Tsinghua University	The Origin of Quality-The Understanding of Particle Physics
2010/5/17	Lin Zhao	Department of Philosophy, Wuhan University	Development of the Enlightenment Movement in the West
2010/5/19	Drew Baden	Department of Physics, Maryland University	First Look at LHC Data
2010/5/20	Dan Hu	Institute of Natural Sciences, Shanghai Jiao Tong University	Modeling and Calculation of the Adaptive Growth of Blood Vessels

2010/5/21	Hepeng Zhang	Institute of Natural Sciences, Shanghai Jiao Tong University	The Collective Movement in the Biological System-How Fish and Birds Are Formed
2010/5/28	Xue-Zheng Cao	Department of Physics and ITPA, Xiamen University	Entropic Effects in Athermal Polymer/Nano-Particle Mixture
2010/5/31	Peidong Yang	Department of Chemistry, University of California, Berkeley	Nanotechnology and Terawatt Challenge
2010/5/31	Zhengwei Pan	University of Georgia	Controlled Growth of One-Dimensional Nanostructure
2010/6/9	Wei Cai	Department of Mathematics & Statistics, University of North Carolina at Charlotte	Numerical Algorithm Issues for Quantum Transport with Non-Equilibrium Green's Function and Wigner Distribution Methods
2010/6/17	Xiaolin Cheng	Oak Ridge National Laboratory	Multi-Scale Mathematics for Biomolecular Simulation
2010/6/23	Qinying Chen	Memorial University of Newfoundland	Organic Bulk Heterojunction Solar Cells with Impro
2010/6/25	David W. McLaughlin	New York University	Mathematical Representation of Large-Scale Neuronal Dynamics
2010/6/25	Alice Chang	Princeton University	Q-curvature-Analytic and Geometric Aspects
2010/7/2	Feng Zhao	Microsoft Research Asia	Technology
2010/7/2	Ding Mingzhou	University of Florida	Response Gain and Its Attentional Control in Visual Cortex
2010/7/21	Michael Schatz	Georgia Institute of Technology	A Dynamical Systems Approach to Turbulence: Recent Advances
2010/10/18	Shigang He	Institute of Biophysics, Chinese Academy of Sciences	Morphology, Function and Development of Retinal Ganglion Cells
2010/10/19	Kobayashi Makoto	***Nobel Laureate in Physics*** High Energy Accelerator Research Organization	Violation of Matter-Antimatter Symmetry
2010/11/5	Lipo Wang	UM-SJTU Joint Institute, Shanghai Jiao Tong University	Geometrical Description of Fluid Turbulence Using Dissipation Element Analysis
2010/11/11	Zhi John Lu	Yale University	IncRNA: Integration of High-Throughput Data
2010/12/1	Haisan Wu	Fudan University	Measuring Collective Motion Using Computer Vision Techniques
2010/12/3	Yunxin Zhang	Fudan University	Biophysical Properties of Molecular

			Motors
2010/12/10	Xiaoming Yuan	Hong Kong Baptist University	Splitting Algorithms for Separable Convex Programming
2010/12/10	Wotao Yin	Rice University	A Feasible Method for Optimization with Orthogonality Constraints
2010/12/10	Weihua Li	Fudan University	Fantastic Self-assembly of Block Copolymers
2010/12/13	Zhiwu Lin	Georgia Institute of Technology	Nonlinear Landau Damping and Inviscid Damping
2010/12/17	Benzhuo Lu	Chinese Academy of Sciences	Continuous Modeling Method in Molecular Simulation
2010/12/21	Qing Nie	University of California, Irvine	Noise Attenuation in Biological Systems
2010/12/24	Weiguo Gao	Fudan University	Numerical Methods for Nonlinear Eigenvalue Problems Arising from Electronic Structure Calculations

Zhiyuan College Academic Seminars, 2011 (59)

Date	Speaker	Affiliation	Title
2011/3/16	Tony Cai	The Wharton School, University of Pennsylvania	Several Frontier Problems in Statistics
2011/3/16	Wei Cai	University of North Carolina at Charlotte	Numerical Algorithms for Electrostatics in Biomole
2011/4/18	Zhi Lu	Tsinghua University	A Brief Introduction of Bioinformatics and Genomics
2011/4/21	Alberto Bressan	Pennsylvania State University	Differential Inclusions, Old and New
2011/4/22	Radjesvarane Alexandre	Shanghai Jiao Tong University	Homogenization, Memory/Non Local Effects, Kinetic Equations
2011/4/25	Shusang Zhu	Fudan University	Introduction on Some Financial Optimization Problems
2011/4/26	Xiangyang Zhu	School of Mechanical Engineering, Shanghai Jiao Tong University	Biological Robot and Bionic Robot
2011/5/6	Xinming Wu	Fudan University	An Adaptive Uniaxial Perfectly Matched Layer Method and Its Applications
2011/5/10	Baode Sun	Shanghai Jiao Tong University	Scientific Problems in the Study of Solidification Technology
2011/5/13	Andrew Belmonte	Pennsylvania State University	Shape-mediated Transitions of Immiscible Droplets in Electric Fields
2011/5/20-5/27	Roger Lewandowski	University of Rennes 1	Approximate Deconvolution Models for Turbulent Flows
2011/5/27	Wei Guo	Yale University	Flow Visualization in Superfluid ^{4}He Using Metastable Helium Molecules as Tracers
2011/5/30	Chongchun Zeng	Georgia Institute of Technology	Spike Dynamics of A Singular Parabolic Equation
2011/5/31	Ning Lan	Shanghai Jiao Tong University	Multi-Scale Modeling to Understand Normal and Pathological Human Movements
2011/6/3	Jie Zhang	Indiana-Purdue University	Science in the Sandbox-Shear Jammed States in Granular Materials
2011/6/8	Leo Radzihovsky	University of Colorado	Condensed Matter Physics with Cold Atomic Gases
2011/6/10	Bo Li	University of California, San Diego	Variational Implicit-Solvent Modeling of Biomolecular Solvation
2011/6/13	Jianfeng Lu	Courant Institute, New York University	Analysis of Multiscale Models of Solids

2011/6/14	Xu Yang	Courant Institute, New York University	Constrained Stochastic Dynamics of Barotropic Flow over Topography
2011/6/21	Xu Yang	Courant Institute, New York University	Frozen Gaussian Approximation for High Frequence Wave Propagation
2011/6/22	Shijie Deng	Georgia Institute of Technology	The Application of Financial Engineering and Risk Management in the Energy Market
2011/6/22	Jingrun Chen	University of California, Santa Barbara	An Efficient Multigrid Method for Molecular Mechanics Modeling of Crystalline Solids
2011/6/23	Xu Yang	Courant Institute, New York University	Homogenized Maxwell Equation in Crystal
2011/6/24	Lin Lin	Princeton University	Quantum Effects of Protons: Momentum Distribution and Potential Energy Surface
2011/6/27	Chen Nan	The Chinese University of Hong Kong	A Non-Zero-Sum Game Approach for Convertible Bonds: Tax Benefits, Bankrupt Cost and Early/Late Call
2011/6/29	Fanghua Lin	Courant Institute, New York University	Uniform Estimates and Convergence Rates for Elliptic Homogenizations
2011/7/4	Daqing Li	Shanghai Jiao Tong University	Dimension of Spatially Embedded Networks
2011/7/4	Dalin Tang	Worcester Polytechnic Institute	Seeking Collaborations and Career Development for Better Potential: Mathematics, Modeling, Engineering and Clinical Applications
2011/7/11	Michael Shelley	Courant Institute, New York University	Novel Phenomena and Models of Active Fluids
2011/7/13	Chun Liu	Department of Mathematics, Pennsylvania State University	Electrostatics and Ion Transport for Nondiluted Ionic Fluids and Ion Channels
2011/7/14	Bokai Yan	Department of Mathematics, University of Wisconsin-Madison	Asymptotic-Preserving Schemes for Kinetic-Fluid Modeling
2011/7/19	Rongjie Lai	Department of Mathematics, University of South California	Laplace-Beltrami Eigen-Geometry and Applications to 3D Medical Imaging
2011/7/25	Xiang Cheng	Cornell University	Imaging the Microscopic Structure of Shear Thinning and Shear Thickening Colloidal Suspensions
2011/7/27	Anthony Man-Cho So	Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong	Rigidity and Localization: An Optimization Perspective

2011/8/3	Xu Yangyang	Department of Computational and Applied Mathematics, Rice University	An Alternating Direction Algorithm for Matrix Completion with Nonnegative Factors
2011/9/19	Frédéric Hérau	Nantes University	Tunnel Effects for Semi Classical Fokker Planck Operators
2011/9/26	Karel Pravda-Starov	Université de Cergy-Pontoise	Exponential Return to Equilibrium for Hypoelliptic Quadratice Systems
2011/9/28	Guanrong Chen	City University of Hong Kong	The Story of "Chaos"
2011/9/29	Daming Li	Shanghai Jiao Tong University	Two Continuum Models for Polymer Networks
2011/10/10	Bingsheng He	Nanjing University	A Relaxed Customized Proximal Point Algorithm for Separable Convex Programming
2011/10/14	Dongdong Ge	Antai College of Economics and Management, Shanghai Jiao Tong University	Convex Relaxation Approach to Appointment Scheduling
2011/10/18	Houde Han	Tsinghua university	Tailored Finite Point Method
2011/10/20	Xiaoling Sun	School of Management, Fudan University	New Wine in Old Bottles: A Lagrangian Decomposition Approach for Quadratic Programs with Hard Constraints
2011/10/20	Jinfeng Jia	Department of Physics, Shanghai Jiao Tong University	QSE in Pb Thin Films and Topological Insulator Thin Films
2011/10/26	Alex Mogilner	Department of Mathematics and Department of Neurobiology, Physiology and Behavior, University of California, Davis	Speed and Accuracy of Mitotic Spindle Assembly
2011/11/2	Yuesheng Xu	Sun Yat-Sen University	From Matrix Representations of Integral Operators to Hyperbolic Cross App
2011/11/9	Yongzhong Huo	Department of Mechanics and Engineering Science, Fudan University	Combine Elastomers with Liquid Crystals-Liquid Crystal Elastomer: Its Unusual Mechanical Property and Smart Behaviors
2011/11/14	Zhang Yin	Rice University	Compressive Sensing: A Brief Introduction
2011/11/14	Zhi Lin	Zhejiang University	Mixing and Transport of Passive Scalars in Fluids
2011/11/15	Daniel Spector	Zhejiang University	Simple Proofs of Some Results of Reshetnyak
2011/12/16	Chengyu(Tony) Li	Institute of Neuroscience, Chinese Academy of Sciences	Modulation of Temporal Dynamics of Neural Network By Burst-Spiking of Single Neurons
2011/11/18	Chao Yang	Lawerence Berkeley National Laboratory	Computational Approaches to Large-scale X-ray Image Analysis
2011/11/23	Zhang Yin	Rice University	Hyperspectral Image Compressive Sensing and Unmixing

2011/12/5	Jianwei Shuai	Department of Physics, Institute of Theoretical Physics and Astrophysics, Xiamen University	The Intracellular Calcium Modeling with the Violation of the Laws of Mass Action and the Detailed Balance
2011/12/9	George Em Karniadakis	Division of Applied Mathematics, Brown University Department of Mechanical Engineering, Massachusetts Institute of Technology	Stochastic Modeling and Uncertainty Quantification in Computational Science & Engineering
2011/12/9	Martin Ulmschneider	Birkbeck College	Burying A Charge in the Lipid Bilayer: A Dilemma Resolved
2011/12/12	Chin-Kun Hu	Institute of Physics, Academia Sinica	Theoretical Models for Biological Evolution and the Origin of Life
2011/12/19	Zheng Gan	Department of Mathematics, Rice University	Spectral Properties of Limit-Periodic Schrödinger Operators

Zhiyuan College Academic Seminars, 2012 (128)

Date	Speaker	Affiliation	Title
2012/1/4	Tony Cai	The Wharton School, University of Pennsylvania	Several Frontier Problems in Statistics
2012/1/10	Qin Zhang	Aarhus University	Distributed Streaming
2012/1/10	John Hopcroft	***A.M. Turing Award Winner*** Cornell University	Research Ideas in Spectral Methods for Community Detection
2012/1/10	Xiaoming Sun	Institute of Computing Technology, Chinese Academy of Sciences	Streaming/Communication Complexity Lower Bound for Some Graph and Linear Algebra Problems
2012/2/3	Wei-Cheng Wang	National Tsinghua University	A Null-Space Free Jacobi-Davidson Method for Maxwell's Equation
2012/2/22	Jianxi Gao	Boston University	Network of Networks
2012/2/22	Michael Engelhart	Heidelberg University	Optimization-based Analysis and Training in Complex Problem Solving
2012/2/24	J. Thomas Beale	Duke University	Numerical Methods and Error Analysis for Singular Integrals and Moving Interfaces in Fluids
2012/2/29	Wei Zhang	Peking University	Numerical Study for the Nucleation of Two-Dimensional Stochastic Cahn-Hilliard Dynamics with Landau-Brazovskii Energy Functional
2012/2/29	Pinyan Lu	Microsoft Research Asia	Classifying Computational Counting Problems
2012/3/6	Yuchun Lin	University of California, Berkeley	Multiscale Computer Simulation on Cellulase: Protein Allostery on Solid-Liquid Interface and Cellulose Deconstruction
2012/3/8	Chaohui Tong	Ningbo University	The Self-consistent Field Study of the Adsorption of Flexible Polyelectrolytes onto Two Charged Objects
2012/3/16	Hongxia Wang	Department of Mathematics and System Science, National University of Defense Technology	The Directional Sensitivity of DT-CWs with Applications in Image Processing

2012/3/21	Weidong Li	Bio-X Institute, Shanghai Jiao Tong University	Animal Modeling Approach on the Genetic of Mental Disorders
2012/3/22	Liwei Xu	Department of Mathematical Sciences, Rensselaer Polytechnic Institute	Central Discontinuous Galerkin Methods for Ideal MHD Equations
2012/3/22	Youjin Deng	University of Science and Technology of China	Development and Applications of Worm-type Monte Carlo Methods
2012/3/28	Shengtian Li	Bio-X Institute, Shanghai Jiao Tong University	Early-Stage Epileptogenesis and Intervention
2012/4/6	Yan Liqing	Department of Mathematics, University of Florida	Liquidity Risk Measurement and Management
2012/4/10	Bernard Meyerson	IBM Technology Innovation	Innovation-the Drive for Growth and Transformation
2012/4/18	Yousheng Shu	Chinese Academy of Sciences	Studies on Neuronal Excitability and Mechanism Underlying Epilepsy
2012/4/24	Ludwig Arnold	Universität Bremen	Random Dynamical Systems-An Introduction
2012/4/25	Zuoqin Wang	University of Michigan	Some Inverse Spectral Results for Perturbed Harmonic Oscillators
2012/4/25	Qun Lin	University of Michigan	Some Inverse Spectral Results for Perturbed Harmonic Oscillators
2012/4/27	Aibin Zang	Yichun College	Vanishing Viscous Limits for 3D Navier-Stokes Equations with A Navier Slip Boundary Condition
2012/4/27	Qiman Shao	Hong Kong University of Science and Technology	The Legend of Student's T-Statistic
2012/4/28	Yihui Zhou	University of North Carolina at Chapel Hill	Empirical Pathway Analysis, without Permutation
2012/5/9	Quanxing Liu	Spatial Ecology Department Royal Netherlands Institute for Sea Research	Self-Organization Patterning in Ecosystem
2012/5/9	Jialin Zhang	University of Southern California, Los Angeles	When Selfish Agents Meet Distributed System: Distributed Consensus Resilient to Strategic Manipulations
2012/5/12	Chen Ding	Wells Fargo Securities	U.S. Mortgage Backed Securities Market
2012/5/14	Saverio Eric Spagnolie	Brown University	Swimming at the Micro-Scale. Part I: Hydrodynamics of Self-Propulsion near A Boundary

2012/5/15	Guowei Wei	Department of Mathematics, Michigan State University	PDE Transform-A Unified Paradigm for Image Analysis and Multiscale Modeling
2012/5/15	Saverio Eric Spagnolie	Brown University	Swimming at the Micro-scale. Part II: Kinematic Optimization and the Many Roles of Flexibility
2012/5/16	Hanfang Yang and Yichuan Zhao	Department of Mathematics and Statistics, Georgia State University	Smoothed Jackknife Empirical Likelihood Inference for the Difference of Two Quantiles
2012/5/18	Jacques Froment	Université de Bretagne Sud	Space-frequency Non-local Total Variation for Image Denoising
2012/5/18	Lihong Cao	Beijing Zhi Comtech Technology Co. Ltd.	Bionic Neural Network and Its Simulation
2012/5/21	Paul Atzberger	Department of Mathematics, Department of Mechanical Engineering, University of California Santa Barbara	Stochastic Modeling and Analysis: Analytic and Computational Approaches
2012/5/22	Paul Atzberger	Department of Mathematics, Department of Mechanical Engineering, University of California Santa Barbara	Mathematical Problems in Soft Condensed Matter
2012/5/22	Periklis Papakonstantinou	Tsinghua University	Space-Bounded Communication Complexity
2012/5/22	Tao Gong	The University of Hong Konga	A Cross-Model Study on the Effect of Power-Laws on Language Evolution
2012/5/22	Lirong Xia	Harvard University	Ordinal Preference Representation and Aggregation: Game-Theoretic and Combinatorial Aspects of Computational Social Choice
2012/5/23	Paul Atzberger	Department of Mathematics, Department of Mechanical Engineering, University of California Santa Barbara	Biophysics and Biomathematics : Current Challenges and Future Directions
2012/5/23	Anita T. Layton	Duke University	How the Kidney Regulates Blood Flow-A Modeling Approach
2012/5/23	Xinfu Chen	University of Pittsburgh	Dynamics of Multi-Stable Equilibrium
2012/5/24	Anna Roe	Vanderbilt University	Functional Organization of Attentional Modulation in Primate V4
2012/5/28	John Wesley Cain	University of Richmond	Kinematic Models of Paced

			Cardiac Fibers
2012/5/28	Tao Luo	Tsinghua University Georgetown University	Free Surface Motion for Inviscid Incompressible MHD Equations
2012/5/29	Yuanwei Qi	University of Central Florida	Global Dynamics and Traveling Fronts of Reaction-Diffusion System Arising from Auto-Catalysis
2012/5/29	Bin Li	The University of Iowa	Default Risk of A Time-Homogeneous Diffusion Model
2012/6/4	Daniel Forger	University of Michigan	Using Mathematics to Understand Biological Timekeeping
2012/6/5	Zheng Huang	The City University of New York	An Application of Elliptic PDEs to Higher Teichmueller Theory
2012/6/6	Yueheng Lan	Tsinghua University	Bridging Steady States with the Renormalization Group Analysis
2012/6/11	Songming Hou	Louisiana Tech University	A Numerical Method for Solving the Elliptic and Elasticity Interface Problems
2012/6/13	Hong Zhu	Division of Biostatistics, College of Public Health, The Ohio State University	Inference on Bivariate Survival Data with Interval Sampling through Kendall's Tau: Testing and Association Measure
2012/6/15	Daniel T.N. Chen	Brandeis University	Hierarchical Active Matter: from Extending Bundles to Active Flows, Streaming Liquid Crystals and Self-Propelled Droplets
2012/6/18	Benyu Guo	Mathematics and Science College, Shanghai Normal University	Spectral Methods for Exterior Problems of Polygonal Domains
2012/6/20	Han Wang	Institute for Mathematics, Freie Universitaet Berlin	The Numerical Accuracy of Force Computation in Inhomogeneous and Correlated Molecular Systems
2012/6/22	Zhening Li	Shanghai University	Probability Bounds for Polynomial Functions in Random Variables
2012/6/28	Wotao Yin	Rice University	On the Global Linear Convergence of the ADM
2012/7/6	Richard T. B. Ma	National University of Singapore	Game-Theoretic Analysis for the Network Neutrality Debate
2012/7/10	John J. H. Miller	Institute for Numerical Computation and Analysis 7-9 Dame Court Dublin 2, Ireland	A Simple Mathematical Model of a Wave Energy Device

2012/7/11	Dezhe Jin	Pennsylvania State University	The Neural Basis of Birdsong Syntax
2012/7/13	Ying Lu	Stanford University	A Longitudinal Chinese Academy of Sciencese-Control Study Design to Evaluate The Odds Ratio of An Imaging Prognostic Marker
2012/7/16	John Strain	University of California, Berkeley	A Butterfly Algorithm for the Geometric Nonuniform FFT
2012/7/17	Weizhu Bao	Department of Mathematics, National University of Singapore	Modelling, Analysis and Simulation of Wave Motion in Quantum and Plasma Physics
2012/7/17	David Xiao	Universit´e Paris 7	Lower Bounds on Information Complexity via Zero-Communication Protocols
2012/7/19	Huazhong Tang	Peking University	Relativistic Equations of Fluid Dynamics
2012/7/23	Hailiang Liu	Iowa State University	Entropy Satisfying Methods for Kinetic Fokker-Planck Equations
2012/8/2	Xu Yang	University of California, Santa Barbara	A Large Deviation Framework to Analyze Metastable Behavior in Climate Systems
2012/8/7	Guillaume Bal	Columbia University	Hybrid Inverse Problems and Systems of Nonlinear Partial Differential Equations
2012/8/7	Kui Ren	University of Texas at Austin	Inverse Problems in Photoacoustic Tomography with Differential Measurement
2012/8/14	Cheng Wang	University of Massachusetts Dartmouth	Numerical Stability of Fully Discrete Pseudo-Spectral Schemes for Nonlinear PDEs
2012/8/17	Dongsheng Yin	Tsinghua University The University of North Carolina at Chapel Hill	Gaussian Beam Method for Schrodinger Equation with Discontinuous Potentials
2012/8/24	Rich McLaughlin	The University of North Carolina at Chapel Hill	Trapping of Buoyant Particles and Plumes in Sharp Stratification
2012/8/27	Michael J. Shelley	Courant Institute, New York University	Biological Flows and Mechanics
2012/8/30	Bin Liu	School of Engineering, Brown University	Helical Swimming in Complex Fluid Media
2012/9/10	Jean-Pierre Bourguignon	École Polytechnique	Mathematics, A Thriving Science

2012/9/13	Yimin Zou	University of California, San Diego	Mechanisms of Chemotropisim-Cell Polarity Signaling in Brain Wiring
2012/9/19	Xiaofan Wang	Department of Automation, Shanghai Jiao Tong University	Social Learning on Complex Networks
2012/9/21	Hidetoshi Konno	Tsukuba University	Multiplicative Stochastic Processes for Characterizing Ventricular Fibrillation in 2D Beeler-Reuter Model
2012/9/24	Zhangsheng Yu	Department of Biostatistics, Indiana University School of Medicine	Dynamic(Time-Varying Coefficient) Modeling for Correlated Survival Data Analysis
2012/9/26	Qin Zhang	IBM Almaden Research Center	Taming the Data Deluge
2012/9/27	Noga Vardi	School of Medicine, University of Pennsylvania	Neurochemical Organization (and Disorganization) of the First Visual Synapse
2012/10/10	Shigang He	Institute of Natural Sciences, Shanghai Jiao Tong University	Development of A Neurocircuitry Codling Motion Directions in the Mammalian Retina
2012/10/12	Sijue Wu	University of Michigan, Ann Arbor	On Some Large Time Behaviors of Surface Water Waves
2012/10/16	Haiyang Fu	Bradley Department of Electrical and Computer Engineering, Virginia Polytechnic Institute and State University	Probe the Ionosphere by Active Sounding Rocket and Radio Wave Modification Experiments
2012/10/17	Pinyan Lu	Microsoft Research Asia	Correlation Decay up to Uniqueness in Spin Systems
2012/10/18	Ji Zhu	University of Michigan, Ann Arbor	Joint Estimation of Multiple Graphical Models
2012/10/22	Gen-Sheng Feng	University of California, San Diego	The Cross-Talks of Physicists, Chemists and Biologists: Products, Problems and Prospects
2012/10/23	Haiyuan Yu	Department of Biological Statistics and Computational Biology Weill Institute for Cell and Molecular Biology, Cornell University	Revealing Molecular Mechanisms of Human Disease through 3D Interactome Network Analysis
2012/10/24	Jimmy Zhou	School of Medicine, Yale University	Synaptic Function in the Developing and Mature Retina
2012/10/26	Liqing Yan	Institute of Natural Sciences, Shanghai Jiao Tong University	Discretization Errors in Simulation of Extrema of Alpha-Stable

			Processes with Their Application in Finance
2012/10/26	Bing-Sui Lu	Institute of Natural Sciences, Shanghai Jiao Tong University	Statistical Physics of Isotropic-Fenesis Nematic Elastomers
2012/10/29	Bengt E. Eliasson	Ruhr-Universität Bochum	Quantum Effects in Relativistic Laser-Plasma Interactions and Quantum Free Electron Lasers
2012/10/30	King Wai Yau	Johns Hopkins University	Melanopsin Signaling in the Eye
2012/10/31	Bengt E. Eliasson	Ruhr-University Bochum	Kinetic Modeling of Unstable Ocean Waves
2012/11/2	Bengt E. Eliasson	Ruhr-Universität Bochum	Full-scale Simulations of Ionospheric Turbulence and Electron Heating by RF Transmitters
2012/11/2	Bengt E. Eliasson	Ruhr-Universität Bochum	Kinetic Modeling of Unstable Ocean Waves
2012/11/7	Qian Wang	School of Media and Design , Shanghai Jiao Tong University	Suppression and Cultural Dreams: Watching Hollywood Comic Films
2012/11/9	Jinglai Li	Institute of Natural Sciences, Shanghai Jiao Tong University	Predicting and Simulating Large Deviations and Rare Events in Lightwave Systems
2012/11/12	Yingfei Yi	School of Mathematics, Georgia Institute of Technology	Oscillations in a Closed Chemical Reaction System
2012/11/12	Valery Romanovski	Center for Applied Mathematics and Theoretical Physics, University of Maribor, Slovenia	Cyclicity of Polynomial Systems of ODEs
2012/11/13	Peter A. Markowich	Department of Applied Mathematics and Theoretical Physics, University of Cambridge	On Wigner and Bohmian Measures (Part II)
2012/11/13	De-Chang Dai	Institute of Natural Sciences, Shanghai Jiao Tong University	Wave, Huygens Principle and Green's Function
2012/11/14	Huichun Liu	Shanghai Jiao Tong University	Semiconductors, Microelectronics, Optoelectronics-All Those Useful Things; Plus Recent Advance
2012/11/14	Le Ma	University of Southern California	Positive and Negative Regulation in the Development of Nerve Cell Branching
2012/11/19	Oleg Musin	University of Texas at Brownsville	Packing of Congruent Spheres on A Sphere
2012/11/21	Yu Zheng	Microsoft Research Asia	Urban Computing with City

			Dynamics
2012/11/28	Qing Tao	Shanghai Jiao Tong University	Cross-Cultural Communication and English Learning
2012/12/5	Paul M. Goldbart	School of Physics, Georgia Institute of Technology	Exploring Polymer Fiber Fluids via Their Quantum Analogs: Topological Constraints and Their Consequences
2012/12/7	Tze Leung Lai	Department of Statistics, Stanford University	Change-Point Methodology and Its Applications
2012/12/10	Shijun Liao	Department of Mathematics, State Key Lab of Ocean Engineering	Chaos: A Bridge between Micro-Level Uncertainty and Macroscopic Randomness
2012/12/10	Derek Frydel	Instituto de Fisica, Universidade Federal do Rio Grande do Sul	Electrostatic Interactions in Soft Matter: Application of the DFT
2012/12/12	Jin Yu	Beijing Computational Science Research Center	Study Physical Mechanisms of Molecular Machines
2012/12/12	Gong Chen	Pennsylvania State University	Transdifferentiation for Internal Brain Repair
2012/12/13	Xiao-Gang Wen	Massachusetts Institute of Technology	Highly Entangled Quantum Matter
2012/12/13	Samuel M. Wu	Baylor College of Medicine	Ion channels, Synapses and Neural Circuits Mediating Visual Function and Dysfunction in the Retina
2012/12/14	Eric Xing	School of Computer Science ,Carnegie Mellon University	Genome-Phenome Association Analysis of Complex Diseases-A Structured Sparse Regression Approach
2012/12/14	Haiqing Lin	Beijing Computational Science Research Center	Simulation of Physical Systems
2012/12/17	Chensong Zhang	Academy of Mathematical and System Sciences, Chinese Academy of Sciences	Auxiliary Space Preconditioning for Petroleum Reservoir Simulation
2012/12/17	Jan Hesthaven	Applied Mathematics, Brown University	Towards A New Generation of PIC Modeling Tools for Maxwell-Vlasov Problems
2012/12/19	Wenjun Zhang	Shanghai Jiao Tong University	Media Network of Future
2012/12/19	Bo Zheng	Zhejiang University	The Application of Statistical Physics in the Complex System of Economic Finance; The Comparative Study of Chinese and Western Finance Markets.

2012/12/19	Jan S Hesthaven	Brown University	Compressed Sensing and Its Application to MRI and fMRI
2012/12/20	Hao Gao	Departments of Mathematics & Computer Science, Radiology & Imaging Sciences, Emory University	Medical Imaging from A Computational Perspective
2012/12/21	Terence Hwa	Department of Physics, University of California, San Diego	Bacterial Growth Laws: Origins and Consequences
2012/12/25	Liang Hong	Center for Molecular Biophysics, Oak Ridge National Laboratory	Revealing Protein Dynamics by Integrating Molecular Dynamics Dimulations with Neutron Scattering Experiments
2012/12/26	Jianfeng Feng	Warwick University	Data Driven Approaches to Mental Disorders
2012/12/27	Mario Micheli	University of Washington	A Geometric Method for Imaging through Turbulence

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Date	Speaker	Affiliation	Title
2013/1/3	Ying Zhang	Department of Biostatistics, College of Public Health, University of Iowa	Tensor-Spline-Based Sieve Nonparametric Maximum Likelihood Estimation Method for Bivariate Current Status
2013/1/3	Weinian Zhang	Sichuan University	Dynamical Systems: Analysis & Control (I)
2013/1/3	Lun Zhang	University of Leuven (KU Leuven)	The Tacnode Kernel in Non-Intersecting Brownian Motions and Its Transition
2013/1/7	Ruibin Zhang	University of Sydney	Second Fundamental Theorem of Invariant Theory for Orthogonal and Symplectic Groups
2013/1/8	Chi-Kwong Li	College of William and Mary	Quantum Operations Transforming Quantum States
2013/1/8	Shixin Liu	University of Califoria, Berkeley Howard Hughes Medical Institute	Revealing the Complexity and Subtlety in Biology by Single-Molecule Detection and Manipulation
2013/1/8	Nung-Sing Sze	Hong Kong Polytechnic University	Preserver Problems Arising in Quantum Information Science
2013/1/10	John Hopcroft	*A.M. Turing Award Winner* Cornell University	The Mathematics Needed for Modern Computer Science
2013/1/10	Yichao Zhu	Hong Kong University of Science and Technology	Two Examples in Multiscale Modelling for Materials
2013/3/6	Yinlong Qiu	Department of Ecology and Evolution Biology, University of Michigan	Mycorrhizas and Colonization of Land by Plants
2013/3/7	John Kuzan	ExxonMobil Upstream Research Company (URC)	The Outlook for Energy
2013/3/7	Xiaohui Wu	ExxonMobil Upstream Research Company (URC)	Predicting Reservoir Performance When Subsurface Characterization is Uncertain at Multiple Scales
2013/3/7	Shige Peng	Shandong University	Path Dependent PDE
2013/3/12	Jianguo Liu	Duke University	Phase Transitions, Hysteresis, and Hyperbolicity for Self-Organized Alignment Dynamics
2013/3/12	Frederic Coquel	Ecole Polytechnique	Vanishing Phase in Baer-Nunziato Like-Models and Entropy Dissipation
2013/3/13	Hao Wang	University of Oxford	A Priori and A Posteriori Error Estimates for Quasicontinuum Approximations

2013/3/13	Manyuan Long	Department of Ecology and Evolution, The University of Chicago	Origins of New Genes and Evolution of Species
2013/3/20	Jianyuan Sun	Institute of Biophysics, Chinese Academy of Sciences	Kinetics of Vesicle Recycling at the Calyx of Held Synapse
2013/3/22	Kun Xu	Hong Kong University of Science and Technology	Direct Modeling for Computational Fluid Dynamics and Unified Gas-Kinetic Scheme
2013/3/25	Lan Wu	School of Mathematical Sciences, Peking University	Methodology and Practice for the Stress Test
2013/3/27	Xiaowen Hong	Microsoft Research Asia	Natural Calculations of 21 Century.
2013/3/28	Jingrun Chen	University of California, Santa Barbara	Quantifying Exciton Diffusion Length in Organic Solar Cells: Diffusion Model
2013/3/29	Keqing Xia	Department of Physics The Chinese University of Hong Kong	How Tabletop Turbulence Experiments Can Help Understand Large-Scale Fluid Phenomena in Nature?
2013/4/3	Minmin Luo	National Institute of Biological Sciences, Beijing	Functional Dissection of Neural Circuits
2013/4/12	Filippo Bracci	Universita di Roma	Loewner Theory in One and Several Variables
2013/4/17	Jufang He	Department of Rehabilitation Sciences, The Hong Kong Polytechnic University	Cholecystokinin: the Memory-Writing Chemical in the Brain
2013/4/18	Alexander Oron	Department of Mechanical Engineering, Technion-Israel Institute of Technology	Fluid Transport in Thin Liquid Films Using Traveling Thermal Waves
2013/4/19	Lou Yuan	The Ohio State University	Dispersal in Heterogeneous Environments: the Role of Advection
2013/4/26	Bolin Hao	Fudan University	Struggle and Opportunity in Two Different Historical Periods
2013/4/26	Hang Zheng etc.	Shanghai Jiao Tong University	All Electronic Superconductivity and the Physics of Other Exotic Electronic Systems
2013/4/28	Wonjung Lee	University of Oxford	Adaptive Approximation of Higher Order Posterior Statistics
2013/5/2	Wonjung Lee	University of Oxford	The Adaptive Patched Particle Filter and Its Implementation
2013/5/6	Yaohong Wang	University of California, Santa Barbara	Fluctuating Hydrodynamics and Fluid-Structure Interactions in Confined Geometries

2013/5/6	FRANÇOISE BROCHARD-WYART	Institute Curie	Soft Matter Models of Tissue and Tumors "Wetting of Living Drops"
2013/5/7	Zhihao Ma	Shanghai Jiao Tong University	Quantum Entanglement in Quantum Information Theory
2013/5/7	Steven G. Louie	Department of Physics, University of California, Berkeley	Single-Molecule Junctions, Graphene Nanostructures, and Topological Insulators: Symmetry and Many-Body Effects
2013/5/9	Ali Faraj	Institute of Natural Sciences, Shanghai Jiao Tong University	Asymptotical An Numerical Methods for Quantum Resonant Transport
2013/5/13	Vadim Zharnitsky	Department of Mathematics and Coordinated Sciences Laboratory, University of Illinois at Urbana-Champaign	Nonlinear Dispersive Equations: High Frequency Waves, Averaging, and Ground States
2013/5/13	Xiao Zhang	Chinese Academy of Sciences Fudan University	The Positive Energy Theorem in General Relativity
2013/5/14	Jianlin Xia	Department of Mathematics, Purdue Unviersity	Matrix-Free Direct Solvers
2013/5/14	Emmanuel Frenod	Universite de Bretagne-Sud	Two-Scale Convergence and Two-Scale Numerical Methods(part1)
2013/5/15	Jun Zhang	Department of Physics, Shanghai Jiao Tong University	Cosmology and Its Large Scale Probes
2013/5/15	Liu Chen	Zhejiang University University of California, Irvine	Physics of Alfvén Waves
2013/5/15	Yipeng Jing	Institute of Natural Sciences, Shanghai Jiao Tong University	Accelerated Expansion of the Universe: Dark Energy and Future Experiments
2013/5/15	Yuehua Wu	Department of Mathematics and Statistics, York University	Entropy-Based Network Design Using Hierarchical Bayesian Kriging
2013/5/17	Emmanuel Frenod	Universite de Bretagne-Sud	Two-Scale Convergence and Two-Scale Numerical Methods(part2)
2013/5/20	Frtihjof Lutscher	University of Ottawa	Integro Difference Equations for Invasive Species in Heterogeneous Landscapes
2013/5/21	Emmanuel Frenod	Universite de Bretagne-Sud	Two-Scale Convergence and Two-Scale Numerical Methods(part3)
2013/5/23	Young-Woo Son	Korea Institute for Advanced Study	More Graphene and More than Graphene
2013/5/24	Ibrahim	Université Paris VI	Mechanical Models for Biology: Cell

	cheddadi		Aggregates and Tissue Repair
2013/5/24	Tournus Magali	Université Paris VI	Hyperbolic Limit of the Heterogeneous Goldstein Taylor Model
2013/5/24	Emmanuel Frenod	Universite de Bretagne-Sud	The Geometrical Gyro-Kinetic Approximation
2013/5/29	Hepeng Zhang	Institute of Natural Sciences, Shanghai Jiao Tong University	Mechanics and Statistics of Locomotion
2013/5/31	Xiaokui Xiao	Nanyang Technological University	Data Publishing and Analysis with Differential Privacy
2013/6/4	Baofeng Feng	Department of Mathematics, University of Texas-Pan American	Bilinearizations to the Camassa-Holm equation, Degasperis-Procesi Equation and Their Short-Wave Models
2013/6/4	Wei Ku	Department of Physics, Stony Brook University	Iron-based High-Temperature Superconductors, A New "Favorite" Family in Condensed Matter Physics
2013/6/4	Dietmar Oelz	Johann Radon Institute for Computational and Applied Mathematics, Austrian Academy of Sciences	Friction Due to Protein Linkages: Multiscale Modeling And Applications in Cytoskeleton Modeling.
2013/6/5	Baofeng Feng	Department of Mathematics, University of Texas-Pan American	Complex Short Pulse Equation and Its Integrable Discretization
2013/6/5	Jean-Luc	Thiffeault Department of Mathematics, University of Wisconsin-Madison	The Topology of Fluid Mixing
2013/6/6	Jean-Luc Thiffeault	Department of Mathematics, University of Wisconsin-Madison	Biomixing: When Organisms Stir Their Environment
2013/6/8	XianMin Jin	University of Oxford Department of Physics, Shanghai Jiao Tong University	Broadband Quantum Memory and Photonic Quantum Information Processing
2013/6/8	Jie Yao	Stanford University	Manipulating Light with Novel Optical Materials
2013/6/9	Da-peng (Max) Bi	Department of Physics, Syracuse University	Energy Barriers for Cellular Rearrangements in Tissues
2013/6/13	Alberto Bressan	Pennsylvania State University	Variational Wave Equations (3)
2013/6/13	Gustavo Cruz Pacheco	Universidad Nacional Autónoma de México	Mechanical Behavior of A Prosthetic Heart Valve
2013/6/13	Dongdong He	City University of Hong Kong	Modeling and Computations for Interfacial Flows on Microfluidic Devices & Viscous

			Thread Pinching Phenomena under Heating
2013/6/14	Gustavo Cruz Pacheco	Universidad Nacional Autónoma de México	Mathematical Modeling of West Nile Virus Infection
2013/6/14	Andrew Belmonte	Department of Mathematics, Pennsylvania State University	Non-Diffusive Spatial Pattern Dynamics in Evolutionary Games
2013/6/17	Wei Li	The University of Iowa	Investment Decisions under Ambiguity: Evidence from Mutual Fund Investor Behavior
2013/6/17	Bruce Reed	McGill University	Rooted Routing via Structural Graph Theory
2013/6/18	Alberto Bressan	Pennsylvania State University	Variational Wave Equations (4)
2013/6/18	Wei Zhu	University of Alabama	Image Denoising Using Mean Curvature of Image Surface
2013/6/18	Zhian Wang	Department of Applied Mathematics, Hong Kong Polytechnic University	Pattern Formation of Volume-Filling Chemotaxis Models
2013/6/18	Jue Yan	Department of Mathematics, Iowa State University	Maximum-Principle-Satisfying High Order Direct DG Method for Convection Diffusion Equations
2013/6/19	Bruce Reed	McGill University	Tree Decompositions from Excluded Structures
2013/6/19	Bruce Reed	McGill University	Optimizing over Well Behaved Tree Decompositions
2013/6/20	Alberto Bressan	Pennsylvania State University	Variational Wave Equations (5)
2013/6/21	Bin Cheng	University of Surrey	Analysis of Some Nonlinear PDEs from Multi-Scale Geophysical Applications
2013/6/21	Bruce Reed	McGill University	Building Tree Decompositions via Iterative Compression
2013/6/25	Chew Soo Hong	Department of Economics, National University of Singapore	Ambiguity, Familiarity, and the Equity Home Bias Puzzle: Theory and Evidence from Choice Experiments Involving Neuroimaging and Molecular Genetics
2013/6/26	Vaughan F. R. Jones	*Fields Medal Winner*	Flatland, A Great Place to Do Algebra
2013/6/26	Cédric Villani	*Fields Medal Winner*	Particles and Probabilities
2013/6/26	Peter Gumbsch, Joachim Heierli, Erik	Karlsruhe Institute of Technology	Simulation of Fracture Processes from Atoms to Snow Slab Avalanches

	Bitzek, Gianpietro Moras		
2013/6/27	Osvanny Ramos	Claude Bernard University Lyon 1	Predicting Scale Invariant Avalanches
2013/6/28	Ellad B. Tadmor	Department of Aerospace Engineering, Mechanics University of Minnesota	10,000,000,000,000,000,000,000 Atoms
2013/7/1	Moshe Rosenfeld	University of Washington	How Wide Can You Spread Your Chopsticks?
2013/7/2	Akil Narayan	University of Massachusetts Dartmouth	Unstructured Interpolation Strategies for Paramaeterized Functions: Least Orthogonal Interpolant Leja Sequences
2013/7/3	Yinghao Chu	Taiwan National Chiao Tung University	Controllable Complex Oxide Interfaces
2013/7/4	Timothy E. Kennedy	Department of Neurology and Neurosurgery, Montreal Neurological Institute, McGill University	A New Role for the Axon Guidance Protein DCC Regulating Synaptic Plasticity in the Adult Brain
2013/7/4	Adriana Di Polo	Department of Neuroscience, University of Montreal	Boosting the Survival of Retinal Ganglion Cells in Glaucoma: Novel Molecular Mechanisms and Therapeutic Targets
2013/7/4	Nicholas C. Brecha	Departments of Neurobiology and Medicine, Jules Stein Eye Institute, David Geffen School of Medicine, University of California, Los Angeles	Mammalian Horizontal Cells Mediate Outer Retina Signaling by a Ca2+-dependent Vesicular Mechanism
2013/7/4	Rozan Vroman	The Netherlands Institute for Neuroscience	Horizontal Cell to Cone Feedback: An Unexpected Synthesis of An Ephaptic and A PH-mediated System
2013/7/4	M. V. Srinivasan	Queensland Brain Institute, University of Queensland	Small Brains, Smart Minds: Vision, Perception and "Cognition" in Honeybees
2013/7/9	Xu Yang	University of California	A Path Way Based Mean Field Model for E. Coli Chemotaxis: the Mathematical Derivation and Keller Segel Limit
2013/7/15	Paul Embrechts	Department of Mathematics, ETH Zurich	Model Uncertainty and Risk Aggregation
2013/7/15	De-en Jiang	Oak Ridge National Laboratory	Electrode/electrolyte Interface in Electrochemical Energy Storage: from Supercapacitors to Li-ion Batteries
2013/7/15	Tiangang	Massachusetts Institute of	Exploiting Low Rank Structures of Large

	Cui	Technology	Scale Inverse Problems
2013/7/16	Toan Nguyen	Division of Applied Mathematics, Brown University	Nonlinear Stability of Time-Periodic Defects
2013/7/19	Wei Xiang，	University of Oxford	Shock Diffraction Problem to the Two Dimensional Nonlinear Wave System and Potential Flow Equation
2013/7/24	Mainak Patel	Duke University	Role of Phase Delayed Inhibition in Decoding Synchronized Oscillations within the Brain
2013/7/29	Bob Behringer	Department of Physics and Center for Nonlinear and Complex Systems, Duke University	Jamming and Dynamics of Granular Materials
2013/7/31	Yana Di	Academy of Mathematics and Systems Science, Chinese Academy of Sciences	Moment Method for Vlasov-Maxwell Equations
2013/9/12	Luc Tartar	Carnegie Mellon University	Beyond PDE: Apparition of Non-local Effects by Homogenization
2013/9/13	Luc Tartar	Carnegie Mellon University	Compensation Effects in PDE
2013/9/17	Jie Ma	Department of Cornell University	Single Molecule Study of Transcription under Torsion
2013/9/25	Martin Benning	University of Cambridge	An Adaptive Inverse Scale Space Method for Compressed Sensing
2013/9/27	Juergen Jost	Max-Planck Institute for MathematiChinese Academy of Sciences in Sciences	Minimal Surfaces and Optimal Form
2013/10/8	Andrei Martinez Finkelshtein	University of Almería	Math is in the Eye of the Beholder
2013/10/10	Martin Ulmschneider	John Hopkins University	Mechanisms of Molecular Transport across Lipid Bilayer Membranes
2013/10/15	Luonan Chen	Shanghai Institutes for Biological Sciences	Detecting Critical Transitions during Complex Biological Processes by Big Biological Data
2013/10/15	Yi Ji	University of Delaware	Pure Spin Currents in Submicron Metallic Structures
2013/10/15	Zhouping Xin	The Chinese University of Hong Kong	On Multi-Dimensional Compressible Navier-Stokes System and Vaccuum
2013/10/16	Chun-Gang DUAN	East China Normal University	Electric-field Control of Magnetism through Surface/Interface Effects
2013/10/20	Shawn Jin	Science Department, AIG	Some Chinese Academy of Sciencese Studies

			in Finance Insurance, Pharmaceuticals and Retails by Predictive Modeling and Data Mining
2013/10/31	Hehu Xie	Institute of Computational Mathematics, Chinese Academy of Sciences	A Multilevel Correction Method for Eigenvalue Problems
2013/10/31	Jing Li	Academy of Mathematics and System Sciences, Chinese Academy of Sciences	On Well-Posedness of Compressible Navier-Stokes Equations
2013/11/1	Zongming Ma	Department of Statistics, University of Pennsylvania	Estimating High-dimensional Matrices: Convex Geometry and Computational Barriers
2013/11/4	Xinbing Kong	School of Management, Fudan University	Modeling High Frequency Financial Data by Pure Jump Processes
2013/11/6	Fanghua Lin	Courant Institute, New York University	The Structure of Helicity and Global Existence of Smooth Solutions
2013/11/13	Haijun Yang	Shanghai Jiao Tong University	Discovery of the "God particle" and the Nobel Prize in Physics, 2013
2013/11/13	Shih-Hsien Yu	Department of Mathematics , National University of Singapore	Mathematical Theories on Linear and Nonlinear Wave Motions in Viscous Compressible Fluid
2013.11.20	Jun Ye	University of Colorado The National Academy of Sciences	From Pilot Classes of SJTU to the Forefront of International Science
2013/11/23	Marie Albenque	école Polytechnique	Unified Construction between Blossoming Trees and Planar Maps
2013/12/2	Zihe Rao	Chinese Academy of Sciences	My Scientific Research Career—Talk that Starts from *Insulin*
2013/12/2	Yuan Yao	Peking University	Statistical Consistency of Early Stopping in Bregman-Type Iterative Algorithms
2013/12/4	Weidong Ji	Shanghai Jiao Tong University	The Shape of the Rule of Law in China-the Design Scheme of "Three Tial System"
2013/12/5	Li Zhang	University of Southern California	Functional Micro-Architecture of the Cerebral Cortex
2013/12/9	Jianyuan Sun	Chinese Academy of Sciences	Interpretation of this Year's Nobel prize in Physiology and Medicine-30 Years' Legendary Exploration Tells About the Story of the Moment
2013/12/12	Erik Luijten	Northwestern University	Lectures on Computational Modeling of Soft Materials (part 1)
2013/12/12	Yang Feng	Columbia University	Consistent Cross-Validation for Tuning Parameter Selection in High-Dimensional

			Variable Selection
2013/12/13	Erik Luijten	Northwestern University	Lectures on Computational Modeling of Soft Materials (part 2)
2013/12/16	Erik Luijten	Northwestern University	Lectures on Computational Modeling of Soft Materials (part 3)
2013/12/16	Peter A. Markowich	University of Cambridge	Free Boundary Problems in Price Formation (I)
2013/12/17	Constance Schober	University of Central Florida	Dynamical Criteria for Rogue Waves in Nonlinear Schrodinger Models
2013/12/17	Peter A. Markowich	University of Cambridge	Free Boundary Problems in Price Formation (II)
2013/12/18	Erik Luijten	Northwestern University	Lectures on Computational Modeling of Soft Materials (part 4)
2013/12/18	Yilei Zhao	Shanghai Jiao Tong University	Chemistry, Biology and Scientific Computing: the Nobel Prize in Chemistry, 2013
2013/12/19	Peter A. Markowich	University of Cambridge	Free Boundary Problems in Price Formation (II)
2013/12/23	Chin-Yueh Liu	Department of Applied Mathematics, National University of Kaohsiung, Taiwan	Developing Kinetic Theory Models of Second Order Neuronal Networks
2013/12/24	Yang Ding	University of Southern California	Secrets of Swimming in Sand
2013/12/25	Ruqian Wu Professor	University of California	Spin-Orbit Coupling in Graphene-Based Systems

Zhiyuan College Academic Seminars, 2014 (121)

Date	Speaker	Affiliation	Title
2014/1/2	Rui Ni	Department of Physics, Wesleyan University Department of Mechanical Engineering & Materials Science, Yale University	Rotation Dynamics of Anisotropic Particles
2014/1/8	Simone Severini	University College London	Contextuality of Physical Theories through Combinatorial Optimization
2014/1/13	Bin Li	Iowa University	The Frequency of Drawdowns
2014/2/20	Wanming Qi	Brown University	Statistical Mechanics of Two-Dimensional Turbulence
2014/3/6	Danhua Wang	University of Vermont	DistFlow ODE: Modeling, Analyzing and Controlling Long Distribution Feeder
2014/3/12	Chaojun Yang	Shanghai Jiao Tong University	Frontier of Financial Development
2014/3/19	Hongyu Zhao	Yale University	Developing Disease Risk Prediction Models Based on Genetic Information
2014/3/24	Feng Zhao	Microsoft Research Asia	Planet-Scale Sensing: From Lab to the Real World
2014/3/25	Hua Yi	School of Mathematics and physics, Jinggangshan University	Morlet Wavelet and Its Application in Multi-Period Analysis of Climate Data
2014/3/26	Xiangdong Ji	Shanghai Jiao Tong University	Large Momentum Effective Field Theory of QCD
2014/3/27	Congcong Huang	Nature Communications	How to Get Published in Nature Communications (and Its Sister Titles)
2014/3/28	Zhicheng Wang	School of Mathmatics and Statistics, Lanzhou University	Multi-Dimensional Traveling Fronts in Time Periodic Reaction-Diffusion Equations
2014/3/31	Qihuo Wei	Liquid Crystal Institute, Kent State University	Boomerangs That Don't Return: Translation-Rotation Coupling in Brownian Motion
2014/4/2	David Waxman	Fudan University	Thinking about Selection and Genetic Drift, in Terms of Trajectories
2014/4/8	Shanbao Tong	Med-X Research Institute and School of Biomedical Engineering, Shanghai Jiao Tong University	Imaging the Cerebral Blood Flow and Vessels
2014/4/9	Shunai Che	School of Chemistry and Chemical Engineering, Shanghai	Chiral Inorganic Materials

		Jiao Tong University	
2014/4/10	Jinyuan Chang	University of Melbourne	Double-Bootstrap Methods that Use A Single Double-Bootstrap Simulation
2014/4/11	Kewei Chen	Image Processing & Analysis Banner Alzheimer's Institute	Mathematical and Statistical Methods for Early Diagnosis of Alzheimer's Disease
2014/4/16	Eduard Feireisl	Institute of Mathematics AS CR	Singular Limits in Thermodynamics of Fluids
2014/4/16	Zhanzhong Shi	Shanghai Jiao Tong University	Building of Shanghai Free Trade Zone: to Promote Reform with Opening Up
2014/4/18	Jun Zhang	Department of Psychology and Department of Mathematics, University of Michigan, Ann Arbor	Learning by Samples: A Reproducing Kernel Banach Space (RKBS) Approach
2014/4/22	Haizhao Yang	Standford University	2D Synchrosqueezed Transforms with Applications in Geophysics and Materials Science
2014/4/23	Xiaotie Deng	Shanghai Jiao Tong University	Reductions
2014/4/24	Yujie Lu	University of Texas Health Science Center at Houston	Current Progress in Forward and Inverse Problem of Multimodal Optical Tomography
2014/5/4	Juergen Jost	Max-Planck Institute for Mathematics in Science	Variational Problems Inspired by Supersymmetric Quantum Field Theory
2014/5/5	Zhen-Gang Wang	Division of Chemistry and Chemical Engineering, California Institute of Technology	Nucleation in Membrane Pore Formation, Rupture, and Particle Translocation
2014/5/7	Shangwei Hou	Shanghai Center for Systems Biomedicine, Shanghai Jiao Tong University	Modulation of BKCa Channel by Lipids
2014/5/7	Wotao Yin	University of California	Distributed Optimization over Network
2014/5/7	Pinyan Lu	Microsoft Research Asia	Classifying Computational Counting Problems
2014/5/8	Jongmin Lee	Joint Quantum Institute, University of Maryland, College Park	Collective Atom-Photon Interactions toward A Hybrid Quantum System
2014/5/9	Ming Yan	Department of Mathematics, University of California, Los Angeles	Algorithmic Regression: A Framework of Sparse Linear Regression
2014/5/9	Sarah Hamilton	University of Helsinki	A Variety of D-Bar Methods in Electrical Impedance Tomography: Not Just for 2D Isotropic Conductivities!

2014/5/13	Xiaodong Liu	Chinese Academy of Sciences	Reconstruction of Neumann Eigenvalues and Support of Sound Hard Obstacles
2014/5/13	Shyamal D. Peddada	National Institute of Environmental Health Sciences	Nonparametric Procedures for Testing Order among Multivariate Distributions
2014/5/14	Anthony J. Leggett	***Nobel Laureate in Physics*** University of Illinois at Urbana-Champaign	Introduction to Topological Quantum Computing
2014/5/14	Bin-Bing Stephen Zhou	School of Medicine, Shanghai Jiao Tong University	Cancer Drug Resistance and DNA Damage Response
2014/5/16	Michael Moeller	Technische Universität München	Color Bregman TV
2014/5/16	Bailu Si	Shenyang Institute of Automation, CHINESE ACADEMY OF SCIENCES	Robust Path-Integration Mechanisms of Grid Cells in Medial Entorhinal Cortex: A Continuous Attractor Network Model
2014/5/20	Youssef Marzouk	Massachusetts Institute of Technology	Bayesian Filtering as Optimal Transportation
2014/5/30	Guo Jun	Columbia University	From Standard Model to New Physics
2014/5/30	Baofeng Feng	University of Texas-Pan American	General Bright-Dark Soliton Solution to the Continuous and Discrete Vector Nonlinear Schrodinger Equation
2014/5/30	Bobo Hua	Fudan University	(Discrete) Nonlinear Evolution Equations: P-Parabolic Equations on Infinite Graphs
2014/6/4	Xianting Ding	Shanghai Jiao Tong University	Multidisciplinary Implementation of Patient-Oriented Individualized Medical Care
2014/6/11	Peter Miller	University of Michigan	The Benjamin-Ono Equation in the Small Dispersion Limit
2014/6/11	Zhang Kai	Department of Statistics, University of North Carolina	Uniform Correlation Mixture of Multivariate Normal Distributions
2014/6/12	Haiguang Liu	Arizona State University	What Computational Modeling Can Help the Structural Biologists?
2014/6/14	Xin Liu	Academy of Mathematics and System Sciences, Chinese Academy of Sciences	An Efficient Gauss-Newton Algorithm for Symmetric Low-Rank Product Matrix Approximations
2014/6/20	Steven Wise	University of Tennessee	Convergence of Finite Element and Finite Difference Methods for Some Cahn-Hilliard-Flow Models
2014/6/20	Cheng Wang	University of Massachusetts - Dartmouth	Epitaxial Thin Film Growth Model and Its Numerical Simulation
2014/6/27	Wei LIU	Department of Radiation Oncology, Mayo Clinic Arizona	Robust Optimization and Robustness Quantification in Intensity Modulated Proton

			Therapy
2014/6/29	Yuen-Ron Shen	National Academy of Sciences	Talks on Learning and Thinking
2014/7/4	Juan M. Restrepo	University of Arizona Group	Challenges in Climate and the Geosciences
2014/7/9	Wei Cai	Stanford University	3D Phase Field Modeling of Nanowire Growth by the Vapor-Liquid-Solid Mechanism
2014/7/15	Zhongmin Wang	Reading Hospital	Radiation Therapy Physics-General Introduction & Some Latest Development
2014/7/17	Shidong Jiang	New Jersey Institute of Technology	Fast and Accurate Evaluation of Nonlocal Coulomb and Dipole-Dipole Interactions via the Nonuniform FFT
2014/7/22	Bin Cheng	University of Surrey	Time-Averaging and Error Estimates for Reduced Fluid Models
2014/7/31	Jingwei Liang	GREYC CNRS UMR 6072, Ecole Nationale Supérieure d'Ingénieurs de Caen	Convergence Rate with Nonexpansive Operators
2014/8/4	Jingwei Hu	Purdue University	Fast Algorithms for The Quantum Boltzmann Collision Operator
2014/9/3	Bo Li	Department of Mathematics and Center for Theoretical Biological Physics, University of California, San Diego	Continuum Theory of Electrostatics with Application to Biological Molecules
2014/9/17	Qing He	Department of Physics, Durham University	Combining Light and Tips-A Chinese Academy of Sciences Study of Electric and Magnetic Properties in Mixed-Phase BiFeO3
2014/9/22	Jianhan Chen	Kansas State University	Multi-scale Enhanced Sampling of Protein Structure and Interaction
2014/9/24	Feifei Li	School of Computing, University of Utah	Interactive Data Analytics and Exploration on Big Data
2014/10/8	Zhong Fang	Institute of Physics, Chinese Academy of Sciences	Condensed Matter and Materials Sciences
2014/10/8	Yong Geng	School of Environmental Science and Engineering, Shanghai Jiao Tong University	Low Carbon Development in China: Challenges and Possible Solutions
2014/10/13	Kewei Chen	Banner Alzheimer's Institute, Banner Health	The Use of Neuroimaging Techniques in the Study of Alzheimer's Disease, Its Risk and as Biomarkers for Prevention(part I)
2014/10/15	Longbing Cao	Engineering and Information Technology, University of Technology Sydney	Data Science and Analytics Science: Opportunities and Challenges for Next Generation Career Planning

2014/10/15	Kewei Chen	Core Resources, Neuroimaging Research and Analysis Lab. Banner Alzheimer's Institute, Banner Health	The Use of Neuroimaging Techniques in the Study of Alzheimer's Disease, Its Risk and as Biomarkers for Prevention(part II)
2014/10/15	Richard Milner	Massachusetts Institute of Technology	Precision Study of the Standard Model at Low Energies
2014/10/21	Zhanbin Lu	Institute of Applied Mathematics and Mechanics, Shanghai University	Combustion over Solid Fuels: the Structure and Instabilities of the Reaction Fronts
2014/10/22	Ping Ao	Shanghai Center for Systems Biomedicine, Shanghai Jiao Tong University	Emerging Darwinian Dynamics in Physics
2014/10/29	Hang Zheng	Department of Physics and Astronomy, Shanghai Jiao Tong University	Blue Led's, An Introduction to 2014 Nobel Prize in Physics
2014/10/30	Jaume Llibre	Universitat Autonoma de Barcelona	The Hilbert`S Number for Some Classes of Differential Equations
2014/10/30	Valery Romanovsky	University of Maribor	Local Integrability and Linearizability of Plane Polynomial Systems
2014/10/30	Maoan Han	Shanghai Normal University	Expansion of Melnikov Functions and Limit Cycle Fifurcation
2014/10/31	Liying Kang	Shanghai University	Extremal Graph Theory Based on the P Spectral Radius
2014/11/3	Yuehua Wu	York University	Bayesian Spatio Temporal Modeling for Blending in Situ Observations with Satellite Precipitation Estimates
2014/11/4	Gyula O. H. Katona	Alfréd Rényi Institute of Mathematics	Introduction to Combinatorial Search
2014/11/4	Chunlei Liu	Shanghai Jiao Tong University	Satellite Communication, Quadratic Equations and Gaussian Inclusion Exclusion
2014/11/5	Hua Liu	Department of Engineering Mechanics, Shanghai Jiao Tong University	Tsunami Runup on Beach and Tsunami Warning System for South China Sea
2014/11/5	Masao Doi	Beihang University	Onsager Principle in Soft Matter Dynamics
2014/11/5	Weike Wang	Department of Mathematics, Shanghai Jiao Tong University	The Three Mathematical Crises and Gödel's Incompleteness Theorem
2014/11/6	Nancy Ryan Grey	Gordon Research Conferences	Gordon Research Conference, Expansion Initiated to Serve Scientists in Asia
2014/11/6	Simone Severini	University College London	Capabilities and Limitations of Quantum Computers

2014/11/12	Le Luo	Indiana University and Purdue University Indianapolis	Trapped Atoms and Ions for Quantum Simulation and Quantum Information
2014/11/12	Chunpeng Wang	Jilin University	Subsonic Sonic Potential Flows (I)
2014/11/12	Wei-Qiang Gao	Shanghai Jiao Tong University	New Insights into Mechanisms of Prostate Epithelial Development, Tumorigenesis and Therapeutic Resistance
2014/11/13	Chunpeng Wang	Jilin University	Subsonic Sonic Potential Flows (II)
2014/11/13	Huaiping Zhu	York University	Modeling, Dynamics, Forecasting of Mosquito Abundance and Public Health Risk of West Nile Virus Infection in Great Toronto Area
2014/11/14	Christos Flytzanis	Ecole Normale Superieure	Ultrafast High THz-field Photo Driven Carrier Dynamics and Transport in Nanostructures
2014/11/14	Jianxian Qiu	Xiamen University	Weighted Essentially Non Oscillatory Limiters for Runge Kutta
2014/11/17	Jing Li	Institute of Applied Mathematics, Chinese Academy of Sciences	Some Recent Results On Compressible NavierG Stokes Equations (I)
2014/11/17	Christos Flytzanis	Ecole Normale Superieure	Ultrafast Quantum Control Of Electrons, Atoms, And Molecules
2014/11/18	Jing Li	Institute of Applied Mathematics, Chinese Academy of Sciences	Some Recent Results on Compressible Navier Stokes Equations (II)
2014/11/19	Qian Wang	Med-X Research Institute, Shanghai Jiao Tong University	Automatic Anatomy Labeling of Brain Magnetic Resonance (Mr) Images
2014/11/20	Ondrej Kreml	Institute of Mathematics, Academy of Sciences of the Czech Republic	Uniqueness of Rarefaction Waves in Compressible Euler Systems
2014/11/20	Jing Li	Institute of Applied Mathematics, Chinese Academy of Sciences	Some Recent Results on Compressible Navier Stokes Equations (III)
2014/11/24	Chunpeng Wang	Jilin University	Subsonic Sonic Potential Flows (III)
2014/11/25	Jing Li	Institute of Applied Mathematics, Chinese Academy of Sciences	Some Recent Results on Compressible Navier Stokes Equations (IV)
2014/11/25	Chunpeng Wang	Jilin University	Subsonic Sonic Potential Flows (IV)
2014/11/26	Yong Long	UM-SJTU Joint Institute, Shanghai Jiao Tong University	Model Based Image Reconstruction for Biomedical Imaging
2014/11/28	Shidong Li	Department of Mathematics, San Francisco State University	Optimal-Dual-Frame Based Analysis Approaches in Compressed Sensing with Coherent Frames

2014/12/3	Jicun Ren	Shanghai Jiao Tong University	Progress of Super Resolved Fluorescence Microscopy and Single Molecule Detection: Enlightenments from the Nobel Prize in Chemistry 2014
2014/12/8	Douglas NC Lin	University of California, Santa Cruz	Ubiquity of Planets and Diversity of Planetary Systems: Origin and Destiny of Multiple Super Earths and Gas Giants
2014/12/9	Zhiqiang Sheng	Institute of Applied Physics and Computational Mathematics	The Finite Volume Scheme Preserving Maximum Principle for Diffusion Equation on Distorted Meshes
2014/12/10	Shuyun Zhou	Tsinghua University	Electronic Structures Of Near Free Standing Graphene and Van Der Waals Heterostructure
2014/12/10	Fang Xiao	National University of Singapore	Rates of Convergence for Poisson Approximation for Scan Statistics
2014/12/10	Songliang Chen	UM-SJTU Joint Institute, Shanghai Jiao Tong University	Optical Detection of Ultrasound and Its Applications to Photoacoustic Imaging and Detection
2014/12/12	Joshua Dijksman	Wageningen University	Bridging the Micro Macro Response of Granular Materials: 3D Experiments and Non Local Numerics
2014/12/12	Haizhang Zhang	Sun Yat-sen University	Reproducing Kernel Banach Spaces with the ℓ^p-norm'
2014/12/15	Ming Han	Northwestern University	Collective Behavior of Colloids in External Fields
2014/12/16	Xiangjun Xing	Shanghai Jiao Tong University	The Long Scale Properties of Dense Electrolytes
2014/12/17	Shenggao Zhou	University of California, San Diego	Variational Implicit Solvation Model for Charged Biomolecules
2014/12/19	Tian Hui Zhang	Suzhou University	Polydispersity and Gelation in Colloids with Competing Interactions
2014/12/19	Zexin Zhang	Suzhou University	Video Microscopy of Colloidal Glasses
2014/12/22	Ke Chen	Chinese Academy of Sciences	Measuring Phonon Modes in Dense Colloids and Its Applications
2014/12/22	Mingcheng Yang	Chinese Academy of Sciences	Mesoscopic Fluid Simulation of Phoretic Colloids and Active Colloids
2014/12/23	Akito Arima	Musashi University	Symmetries in Nature and Culture
2014/12/26	Pan Zhang	Santa Fe Institute, Santa Fe	Statistical Mechanics beyond the Realm of Statistical Physics
2014/12/29	Shuangliang Zhao	East China University of Science and Technology	Unified Framework of Density Functional Theories and its Recent Applications

2014/12/29	Xin Zhou	University of Chinese Academy of Sciences	Equilibrium and Non Equilibrium Simulations for Exploring Conformational Space
2014/12/29	Paul E. Schupp	University of Illinois at Urbana-Champaign	Computability, Complexity and Group Theory

Zhiyuan College Academic Seminars, 2015 (130)

Date	Speaker	Affiliation	Title
2015/1/4	Yaxiang Yuan	Chinese Academy of Sciences	Recent Advance in Trust Region Algorithms
2015/1/5	Stephen Wolfram	Wolfram Research	The Future of Computation & Knowledge
2015/1/15	Jingyuan Li	Chinese Academy of Sciences	Molecular Modeling about the Biological Effect of Nanomaterial
2015/1/19	Xinliang Xu	Beijing Computational Science Research Center	Modeling Mechanical Properties of DNA: Allosteric Protein Binding, Loop Formation, and Longitudinal Fluctuations
2015/1/22	Matthieu Wyart	New York University	The Memory of Sand
2015/1/22	Xinsheng Sean Ling	Southeast University and Brown University	The Nanopore DNA Sequencing Problem and the Second Law: the Answer was in Schrodinger's other Equation
2015/3/16	Joel Moser	Institute of Photonic Sciences	Force Detection and Frequency Fluctuations in Carbon Nanotube Mechanical Resonators
2015/3/18	Meng Zhou	Institute of Oceanology, Shanghai Jiao Tong University	Age of Exploration: Nature, Ecosystem, Nature Resources and Climate Change of the Southern Ocean and Antarctica Region
2015/3/20	Dongzhuo Zhou	Shanghai Jiao Tong University	Bilinearity in Spatiotemporal Integration of Synaptic Inputs
2015/3/20	Peng Zhang	Shanghai Jiao Tong University	Critical Points of the N Dimensiona Ginzburg Landau Functional
2015/3/30	Sufei Shi	UC Berkeley/Lawrence Berkeley National Laboratory	Manipulating Strong Light Matter Interactions in Graphene and 2D Semiconductors
2015/4/1	Derek Frydel	School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University	Discrete Structure of Fluids
2015/4/7	Yang Ding	Beijing Computational Science Research Center	Numerical Studies on the Fluid Mixing and Particle Capture By Cilia
2015/4/8	Guojun Sheng	RIkagaku KENkyusho/Institute of Physical and Chemical Research	Symmetry Breaking in Early Development
2015/4/8	Sze–Bi Hsu	National Tsinghua University	A Nonlocal Problem from Conservation Biology
2015/4/16	Qifeng Liao	ShanghaiTech University	Reduced Basis Collocation Methods for Partial Differential Equations with

			Random Coefficients
2015/4/22	Ian H. Sloan	The University of New South Wales	Computing Integrals in Many Dimensions What's New?
2015/4/22	Guanrong (Ron) Chen	City University of Hong Kong	Spectral Analysis and Optimal Synchronizability of Complex Networks
2015/4/22	Mikhail V. Volkov	Ural Federal University	Synchronizing Finite Automata: A Problem Everyone Can Understand but Nobody Can Solve (So Far)
2015/4/29	Daizhan Cheng	Chinese Academy of Sciences	From STP to Logical Dynamic Systems
2015/4/29	Hendrik Heinz	Department of Polymer Engineering, University of Akro	Mechanisms of Molecular Recognition and Assembly at the Nanoscale: Computation Meets Experiment
2015/5/4	Kai He	Brookhaven National Laboratory	Probing Dynamical Phenomena by Time Resolved Electron Microscopy
2015/5/5	Lingti Kong	Shanghai Jiao Tong University	Phonon Dispersion Measured Directly from Molecular Dynamics Simulations
2015/5/8	Zhouping Xin	The Chinese University of Hong Kong	On the Uniqueness of Weak Solutions for Multi Dimensional Euler Equations
2015/5/8	Zexian Cao	Institute of Physics, Chinese Academy of Sciences	A Simple Algebraic Equation, Diophantine Numbers and Patterns of Nature
2015/5/8	Junpeng Cao	Institute of Physics, Chinese Academy of Sciences	Beautiful Models: Introduction to Quantum Integrable Systems
2015/5/12	Xiliang Lv	Department of Mathematics, Wuhan University	A Primal Dual Active Set Algorithm for Sparse Optimization Problems
2015/5/13	Yum-Tong Siu	Harvard University	Some Interactions Between Partial Differential Equations and Several Complex Variables
2015/5/13	Lian Yong	Shanghai Jiao Tong University	Wearable Wireless Biomedical Sensors: Challenges and Future
2015/5/15	Yukun Wang	Shanghai Jiao Tong University	A Chinese Academy of Sciencese Study on the Mechanism of Antimicrobial Peptides
2015/5/19	Matthias Sperl	German Aerospace Center (DLR)	Granular Gases, Fluids, and Glasses
2015/5/19	Hong Zhu	Shanghai Jiao Tong University	High Throughput Computational Materials Design for Energy Related Materials
2015/5/20	Yuanbo Zhang	Fudan University	Electronic Properties of Novel Two Dimensional Materials
2015/5/20	Professor Mats Selen	Department of Physics, University of Illinois at Urbana-	Introduction of Physics-Optics

		Champaign	
2015/5/22	Peng Zhang	Shanghai Jiao Tong University	Vortices in The Ginzburg Landau Model
2015/5/26	Benjamin Lindner	Shanghai Jiao Tong University	Markov Models and Scattering Functions
2015/5/27	George Huntly Lorimer	The National Academy of Sciences	Face-to-face Talk with the Academic Masters
2015/5/28	Peihong Zhang	Department of Physics, University at Buffalo	Hole-Lattice Coupling and Insulator-metal Transition in VO2
2015/5/29	Aihua Chen	East China Normal University	Causal Links between Vestibular, but Not Intraparietal, Cortex in Heading Perception
2015/6/3	Georg StadlerG	Courant Institute, New York University	Computational Methods for Bayesian Inverse Problems Governed by PDEs, with Application to Studying the Dynamics of Ice Sheet
2015/6/3	Jeffrey Erlich	New York University Shanghai	Model Based Quantification of Frontal and Parietal Contributions to Spatial Decision Making
2015/6/4	Katherine Newhall	University of North Carolina, Chapel Hill	The Causes of Metastability and Their Effects on Transition Times
2015/6/5	Xiang Zhou	City University of Hong Kong	Explore Stochastic Instabilities of Periodic Points by Transition Path Theory
2015/6/5	Richard M. McLaughlin	University of North Carolina at Chapel Hill	Symmetry Breaking in Advective Diffusive Transport
2015/6/8	Yongqin Liu	North China Eletric Power University	Decay of Solutions to Nonlinear Timoshenko System with Memory
2015/6/8	Shangkun Weng	Pohang University of Science and Technology	On Multi Dimensional Steady Subsonic Flows Determined by Physical Boundary Conditions
2015/6/11	Hui Ji	National University of Singapore	Image Recovery via Geometrically Structured Approximation
2015/6/11	Xiangqiang Chu	Department of Physics and Astronomy, Wayne State University	Protein Dynamics on Multiple Time Scales Detected by Neutron Scattering
2015/6/12	M. Gregory Forest	University of North Carolina at Chapel Hill	Dynamic Organization of the Yeast Genome
2015/6/12	Ken McLaughlin	Department of Mathematics, University of Arizona	Examples from Integrable Mathematics: Asymptotic Analysis of Random Matrix Models, Partition Function Expansions, Singular Limits of Integrable PDEs, and Maybe Some Rudimentary Approximation

			Theory
2015/6/15	Xinfu Chen	University of Pittsburgh	Singular Control Approximation and Minimal Viscosity Solution Selection Principle in Consumption and Investment with Tax
2015/6/18	Xing Wei	Princeton University	Rotating Magneto Hydrodynamics in Planetary and Stellar Interiors
2015/6/19	Shixin Liu	The Rockefeller University	Detection and Manipulation of Single Biomolecular Machines
2015/6/19	Roberto Camassa	University of North Carolina, Chapel Hill	Settling in Stratified Fluids: A Tortoise and Hare Experimental and Mathematical Tale
2015/6/24	Sun Jian	Morgan Stanley New York	Implied Remaining Variances Surfaces
2015/6/24	Lan Wu	School of Mathematical Sciences, Peking University	Empirical Analysis of Risk Free Interest Rates in Chinese Financial System
2015/6/24	Yunyun Li	Tongji University	Active Brownian Motion in a Narrow Channel
2015/6/24	Changjiang Zhu	South China University of Technology	Global Classical Solutions to Compressible Navier Stokes Equations
2015/6/29	Dario Ringach	University of California, Los Angeles	Cortical Maps, Receptive Fields and the Specificity of Brain Connections
2015/7/1	Xiaolin Cheng	Oak Ridge National Laboratory	Lateral Organization and Inter-Leaflet Coupling of Biological Membranes from Simulation and Neutron Scattering
2015/7/2	Wei Wang	University of California, San Diego	Deciphering and Engineering Chromatin Reader Proteins
2015/7/2	Anxo Sánchez	Universidad Carlos III de Madrid	The Interaction Based Approach to Socio Economic Behavior
2015/7/3	Rosalia Serna	Insituto de Optica , CSIC	Integrating Nano Scale Elements for the Building of Active Optical Metamaterials
2015/7/3	Peter Miller	University of Michigan	Semiclassical Initial Boundary Value Problems for the Defocusing Nonlinear Schr\"Odinger Equation
2015/7/6	Stefano Bianchini	Scuola Internazionale Superiore di Studi Advanzati	Quadratic Interaction Potential and Lagrangian Representation for Conservation Laws
2015/7/7	Rafi Blumenfeld	National University of Defense Technology, China Imperial College London Cambridge University	Towards a Stress Theory for Real Granular Materials

2015/7/8	Jinxing Zhang	Beijing Normal University	Probe Based Technique: A Pathway to Control Multiple Ferroic Orders at Nanoscale
2015/7/10	Wei-Min Zhang	Taiwan Cheng Kung University	Non Equilibrium Quantum Transport For Nano Scale Devices
2015/7/13	Andy Wathen	Oxford University	Preconditioning: A Review
2015/7/20	Yaohang Li	Old Dominion University	Revisit of Monte Carlo Methods on Large-Scale Numerical Linear Algebra Problems
2015/7/22	Longnian Lin	Institute of Brain Functional Genomics, East China Normal University	Neural Information Coding in the Amygdala and Hippocampus
2015/7/28	Wei Zhang	Free University of Berlin	Model Reduction in Solving Optimal Control and Sampling Problems for Diffusion Processes
2015/7/29	Jingwei Liang	Ecole Nationale Supérieure d'Ingénieurs de Caen	Activity Identification and Local Linear Convergence of Forward Backward Type Methods
2015/7/30	Chunxiong Zheng	Tsinghua University	Optimal Error Estimates for Gaussian Beam Approximations to the Schrodinger Equation
2015/7/31	Guanglian Li	University of Bonn	An Adaptive GMsFEM for High Contrast Flow Problems
2015/8/1	Lexing Ying	Stanford University	Sparsifying Preconditioners
2015/8/3	Jae Kyu Choi	Yonsei Universitya	Inverse Problem in Qsm from Theory to Application
2015/8/11	Yifei Lou	The University of Texas at Dallas	The Difference of L1 and L2 Norms for Compressive Sensing and Image Processing
2015/8/17	Hermann Riecke	Department of Engineering Sciences and Applied Mathematics, Northwestern University	Neuronal Networks in Sensory Processing in The Brain
2015/8/18	Oscar P. Bruno	California Institute of Technology	Fast Spectral Frequency and Time Domain PDE Solvers
2015/8/18	Andreas Hauptmann	University of Helsinki, Finland	Enhancing the D-bar Method for Electrical Impedance Tomography with Diffusive Image Segmentation
2015/8/18	Robert Krasny	University of Michigan	Lagrangian Particle Methods for Vortex Dynamics

2015/8/19	Chao Yang	Lawerence Berkeley National Laboratory	Absorption Spectrum Estimation via Linear Response Time Dependent Density Functional Theory
2015/8/19	Eugene Tyrtyshikov	Marchuk Institute of Numerical Mathematics, Lomonosov Moscow State University	Advanced Low Rank Approximations For Tensors And Matrices
2015/8/21	Yoshiyuki Kagei	Kyushu University	On Chorin's Method for Stationary Solutions of the Oberbeck-Boussinesq Equation
2015/8/24	Yimin Yang	Protiviti Inc	Normal Space for Model Risks in Finance
2015/8/27	Huazhong Tang	School of Mathematical Sciences, Peking University	High-Order Accurate Physical-Constraints-Preserving Finite Difference WENO Schemes for Special Relativistic Hydrodynamics
2015/9/24	Changjuan Zhang	Suzhou University	Multiscale Modeling for Chemical Vapor Infiltration Process
2015/9/24	Xue-Cheng Tai	Department of Mathematics, University of Bergen	Continuous Max Flow and Global Minimization for Classification of High Dimensional Data
2015/9/30	Jianlan Wu	Department of Physics, Zhejiang University	Highly Efficient Energy Transfer in Light Harvesting Complex
2015/10/8	Fabio Marchesoni	University of Camerino	Diffusion of Unstable Microswimmers
2015/10/14	Keke Zhang	University of Exeter	Probing Jupiter's Interior via Gravitational Sounding
2015/10/20	Yi Peng	Department of Chemical Engineering and Materials Science, University of Minneasota	Diffusion of An Ellipsoid in Quasi-2D Active Fluid
2015/10/22	William D. Ratcliff	National Institute of Standards and Technology	Magnetic Order in Multiferroic Hexagonal LuFeO3
2015/10/26	Abdul Qadeer Khan	University of Azad Jammu& Kashmir	Global Dynamics of Two Systems of Exponential Difference Equations by Lyapunov Function
2015/11/3	Richard N. Zare	Stanford University	Human Alcoholysis: the Chemistry Behind Drinking to Excess
2015/11/4	Gennady Samorodnitsky	School of Operations Research and Information Engineering, Cornell University	Tail Inference: Where Does the Tail Begin?

2015/11/5	Yongxing Shen	SJTU Michigan Joint Institute, Shanghai Jiao Tong University	The Phase Field Method for Brittle Fracture: Advantages, Drawbacks, and Possible Solutions to Alleviate the Latter
2015/11/8	Jun Ye	University of Colorado The National Academy of Sciences	The Manufacture of the World's Most Advanced Atomic Cduidelocks
2015/11/10	Daniel Peterseim	University of Bonn	Numerical Homogenization by Localized Orthogonal Decompositions
2015/11/11	Daniel Peterseim	University of Bonn	Eliminating the Pollution Effect in Helmholtz Problems by Local Subscale Correction
2015/11/11	Jianglai Liu	Shanghai Jiao Tong University	Massive Neutrinos 2015 Nobel Prize in Physics
2015/11/11	Carlos J. Bustamante	Department of Physics, University of California, Berkeley	The Long Detour: Reflections of A South American Scientist in the US
2015/11/18	Andreas Dress	Chinese Academy of Sciences-MPG Partner Institute for Computational Biology	A Cognitive Network for Oracle Bone Characters Related to Animals
2015/11/18	Shaoyuan Li	Shanghai Jiao Tong University	Intelligent Manufacturing and Knowledge Automation
2015/11/19	Raymond H. Chan	Department of Mathematics, The Chinese University of Hong Kong	Point Spread Function Reconstruction in Ground Based Astronomy
2015/11/20	Wonjung Lee	Department of Mathematics, City University of Hong Kong	Reduced Complex Dynamical System Models and Applications to Data Driven Un-certainty Quantication
2015/11/24	Irith Hartman	University of Haifa New York University Shanghai	Matchings, Star Partitions, and Clique Covers in Interval Graphs: Graph Theoretical Tools in Transportation Science
2015/11/25	Wanbin Zhang	Shanghai Jiao Tong University	Artemisinin: From Extraction to Mild Chemical Synthesis
2015/11/27	Mark Wolters	Shanghai Center for Mathematical Sciences	Autologistic Regression Models, with Application to Segmentation of Hyperspectral Satellite Imagery
2015/12/1	Xu Zhu	Shanghai Jiao Tong University	The Cycle Descent Statistics of Permutations
2015/12/2	Xinbing Wang	Shanghai Jiao Tong University	How to Plan Future for Oneself

2015/12/8	Xianmin Xu	Chinese Academy of Sciences	Unfitted Finite Element Method for Convection Diffusion Equation on Surfaces
2015/12/8	Dexter Kozen	Cornell University	Hoare Logic and Kleene Algebra with Tests
2015/12/10	Young-Woo Son	Korea Institute for Advanced Study	Manifestation of Axion Electrodynamics Through Magnetic Ordering on Edges of Topological Insulator
2015/12/10	Shuo Zhang	Chinese Academy of Science	On the Structure of Finite Element Spaces and Its Application
2015/12/10	Benling Li	Ningbo University	Finsler Metrics with Special Scalar Flag Curvature
2015/12/11	Jingwei Liang	Ecole Nationale Supérieure d'Ingénieurs de Caen	Activity Identification and Local Linear Convergence of Douglas-Rachford/ADMM
2015/12/14	Zhiwen Zhang	University of Hong Kong	A Dynamically Bi-Orthogonal Method for Time Dependent Stochastic Partial Differential Equation
2015/12/14	Xinsheng Sean Ling	Southeast University Brown University	The Nanopore DNA Sequencing Problem and the Second Law: Schrodinger's other Equation
2015/12/14	Yuexun Wang	Tsinghua University	Non-Existence in Sobolev Space to the Cauchy Problem of the 1-D Isentropic Navier Stokes Equations
2015/12/18	Likun Hou	Institute of Natural Sciences, Shanghai Jiao Tong University	Two Topics on Multichannel Image Restoration
2015/12/18	Hui Zhang	School of Mathematical Sciences, Beijing Normal University	The Micro Structure and Phase Transition Process of Macromolecular Microsphere Composite (Mmc) Hydrogel
2015/12/21	Zhen Zhang	the South University of Science and Technology of China	Modeling and Simulation of Moving Contact Line Problem for Two Phase Complex Fluids Flow
2015/12/22	Shenggao Zhou	Suzhou University	Implicit-Solvent Models for Biomolecular Solvation
2015/12/22	Zecheng Gan	Shanghai Jiao Tong University	Hybrid Method for Systems of Closely Spaced Dielectric Spheres and Ions
2015/12/22	Wenyuan Dai	4Paradigm	About Data
2015/12/28	Jingwei Hu	Purdue University	Asymptotic Preserving Schemes for the Semiconductor Boltzmann Equation with Two Scale Collisions

| 2015/12/30 | Weijun Xu | Warwick University | What do Infinities in Stochastic PDEs Mean? |

Zhiyuan College Academic Seminars, 2016 (158)

Date	Speaker	Affiliation	Title
2016/1/6	Lei Xu	Department of Physics, The Chinese University of Hong Kong	The Secret of Splashing
2016/1/11	Xing Wei	Institute of Natural Sciences, Shanghai Jiao Tong University	Rotating Magneto Hydrodynamics in Planetary and Stellar Interiors
2016/1/13	Xinwei Yu	University of Alberta	On Stationary Solutions to Doi-Onsager Models
2016/2/2	Fanlong Meng	University of Cambridge	Rheological Response of A Transient Network Under Deformations
2016/2/23	Hyoung-In Lee	Seoul National University	Plasmonics of Lossy Nanowires: Multiple Complex Roots
2016/2/23	Ivan Sutherland	*A.M. Turing Award Winner* Portland State University	Science and Life
2016/3/2	Leonid Berlyand	Pennsylvania State University	Sharp Interface Limit in a Phase Field Model of Cell Motility
2016/3/3	Leonid Berlyand	Pennsylvania State University	Homogenization and Multiscale Problems: Theory and Applications (I)
2016/3/4	Leonid Berlyand	Pennsylvania State University	Homogenization and Multiscale Problems: Theory and Applications (II)
2016/3/11	Jianzhong Su	Department of Mathematics, University of Texas at Arlington, USA	Globally Convergent Methods for Inverse Problems in Diffuse Optical Tomography and Its Applications
2016/3/14	Cunquan Zhang	West Virginia University	Neighbour Distinguishing Edge Weighting
2016/3/15	Doron Levy	Department of Mathematics, University of Maryland	Modeling the Role of the Immune Response in Chronic Myelogenous Leukemia
2016/3/16	Doron Levy	Department of Mathematics, University of Maryland	Modeling Group Dynamics in Phototaxis
2016/3/18	Daqing Wan	University of California, Irvine	Rational Roots of Sparse Polynomials
2016/3/21	Ulugbek S. Kamilov	Mitsubishi Electric Research Laboratories	Learning Approach to Optical Tomography
2016/3/21	Fanhai Zeng	Division of Applied Mathematics, Brown University	Spectral Collocation Methods for Fractional Boundary Value Problems
2016/3/28	Avy Soffer	Rutgers University	Soliton Theory of the Nonlinear Schroedinger Equation (1)
2016/3/29	Tao Luo	Department of Mathematics, City University of Hong Kong	On the Free Surface Motion Of Highly Subsonic Heat Conducting Flows

2016/3/29	Yanjin Wang	Department of Mathematics, Xiamen University	Nonlinear Stability and Instability for Two Compressible Viscous Fluids
2016/3/29	Avy Soffer	Rutgers University	Soliton Theory of the Nonlinear Schroedinger Equation (2)
2016/3/30	Avy Soffer	Rutgers University	Nonlinear Long Range Scattering and Normal Form Analysis
2016/3/31	Avy Soffer	Rutgers University	Soliton Theory of the Nonlinear Schroedinger Equation (3)
2016/4/1	Avy Soffer	Rutgers University	Soliton Theory of the Nonlinear Schroedinger Equation (4)
2016/4/6	Xiao Yun Xu	Department of Chemical Engineering, Imperial College London	Transport Processes in Biological Systems: From Blood Flow in the Aorta to Drug Transport in Solid Tumour
2016/4/6	Rongjun Chen	Department of Chemical Engineering, Imperial College London	Cross-Membrane Delivery for Cell Therapy
2016/4/6	Qihua Wang	Academy of Mathematics and Systems Science, Chinese Academy of Sciences	A Consistent Jackknife Empirical Likelihood Test for Distribution Functions
2016/4/6	Jürgen Jost	Max Planck Institute for Mathematics in the Sciences	The Bernstein Problem
2016/4/7	Valery ROMANOVSKI	University of Maribor & CAMTP	Centers and Integrability in Polynomials Systems of ODEs
2016/4/8	Yimei Zhu	Brookhaven National Laboratory	Face-to-face with Famous Alumni Yimei Zhu-Listen to Talk on Advanced Nano Science and Introduction on the Brook Brookhaven National Laboratory Given by Academic Master
2016/4/12	Wei-Jun Xu	University of Warwick	Singular Stochastic PDEs and Regularity Structures (1)
2016/4/13	Yi Zhou	Fudan University	Structure of Helicity and Global Solutions of Incompressible Navier Stokes Equation
2016/4/14	Jin Yu	Complex Systems Division, Beijing Computational Science Research Center	Non-equilibrium Physics in Bio-physical Systems
2016/4/14	Wei-Jun Xu	University of Warwick	Singular Stochastic PDEs and Regularity Structures (2)
2016/4/19	Wei-Jun Xu	University of Warwick	Singular Stochastic PDEs and Regularity Structures (3)

2016/4/21	Wei-Jun Xu	University of Warwick	Singular Stochastic PDEs and Regularity Structures (4)
2016/4/21	Eiichi Bannai	Shanghai Jiao Tong University	On Spherical Designs: A Survey
2016/4/26	Yijin Ren	W.J.Kolff Institute of Biomedical Engineering and Materials Science, University Medical Center Groningen, University of Groningen	Health Aging-Contribution of the Assets of Biomedical Engineering and Biomaterials
2016/4/26	Akil Narayan	University of Utah	High Dimensional Approximation Using Equilibrium Measures
2016/4/27	Ruirui Lin	Peking University	Topological Matters in Electron Hole Double Layers
2016/4/27	Richard McCray	University of California, Berkeley	Supernova 1987 A
2016/4/27	Zhongping Chen	University of California	Advances in Optical Coherence Tomography: Translation of OCT Technology from Bench to Bedside
2016/4/28	Freddy Dumortier	Hasselt University	Slow Fast Systems: General Setting and Intrinsic Notions
2016/4/29	Shengfu Deng	Lingnan Normal University	Multi Hump Solutions with Small Oscillations At Infinity for Stationary Swift Hohenberg Equation
2016/5/3	Dezheng Sun	Department of Applied Physics , Stanford University	Manipulation of Valley Coherence and Many-Body Interaction in Monolayer Tmdc Using Ultrafast Laser Pulses
2016/5/3	Jianbo Hu	California Institute of Technology	4D Visualization of Ultrafast Lattice Deformation in Solids
2016/5/3	Hanghuig Chen	Columbia University	Charge-Transfer-Driven Emergent Phenomena in Oxide Heterostructures
2016/5/4	Bei Ding	University of Pennsylvania	Probing Site-Specific Orientations and Dynamics Of Biomolecules via Vibrational Probes
2016/5/4	Lianao Wu	Department of Theoretical Physics and History of Science, Basque Country University	One Component Quantum Mechanics and A Universal Control Theory
2016/5/4	Freddy Dumortier	Hasselt University	Slow Fast Systems with Singularities in the Slow Dynamics
2016/5/6	Mohamed Atia	University of Gabes	Linearization Coefficients of Bessel Polynomials and Applications
2016/5/6	Fengnan Gao	Leiden University	On the Estimation of the Preferential

			Attachment Network Model and More
2016/5/9	Weibo Cai	University of Wisconsin-Madison	Molecular Imaging, Image Guided Drug Delivery, and Theranostics
2016/5/11	Guofu Yu	Shanghai Jiao Tong University	A Glimpse At Integrable Combinatoricsg
2016/5/11	Richard M.Wilson	California Institute of Technology	Algebraic Techniques in Extremal Set Theory
2016/5/11	Zhongping Chen	Beckman Laser Institute, Department of Biomedical Engineering, University of California	Frontier of Biophotonics Lecture Series
2016/5/13	Zhiming Zhang	Beijing Computational Science Research Center	Superconvergence: An Old Field with New Territories
2016/5/16	Jianda Wu	Department of Physics, University of California, San Diego	Quantum Critical Dynamics in Many Body Systems
2016/5/16	Shmuel Friedland	University of Illinois at Chicago	Tensors and Entanglement in Quantum Physics
2016/5/17	John Erik Fornaess	Norwegian University of Science and Technology	Complex Dynamics in Higher Dimension(1)
2016/5/19	John Erik Fornaess	Norwegian University of Science and Technology	Complex Dynamics in Higher Dimension(2)
2016/5/19	Li Chen	Department of Mathematics, University of Mannheim	Analysis on A Nonlocal Fisher-KPP Reaction Diffusion Equation
2016/5/20	John Erik Fornaess	Norwegian University of Science and Technology	Complex Dynamics in Higher Dimension(3)
2016/5/23	Honglang Wang	Indiana University-Purdue University Indianapolis	Unified Empirical Likelihood Ratio Tests for Functional Linear Models and the Phase Transition from Sparse to Dense Functional Data
2016/5/24	John Erik Fornaess	Norwegian University of Science and Technology	Complex Dynamics in Higher Dimension(4)
2016/5/24	Jian-Guo Liu	Duke University	Euler Sprays and Wasserstein Geometry of the Space of Shapes
2016/5/25	Lilin He	Oak Ridge National Laboratory	Application of Small Angle Neutron Scattering on Soft Matters
2016/5/25	Renyuan Zhu	California Institute of Technology	The Next Generation of Crystal Detectors for Future High Energy Physics Calorimetry
2016/5/25	Xingjie Li	University of North Carolina at Charlotte	Coarse Graining, Dynamic Renormalization and the Kinetic Theory of Shock Clustering

2016/5/25	Jing Li	Chinese Academy of Sciences	Serrin-Type Criterion and Large Time Behavior for Full Compressible Navier Stokes System
2016/5/26	Changming Dong	School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University	Stimuli Responsive Polypeptides and Their Nanomedicines
2016/5/27	John Erik Fornaess	Norwegian University of Science and Technology	Complex Dynamics in Higher Dimension(5)
2016/5/27	Sam Stechmann	University of Wisconsin-Madison	Modeling the Madden Julian Oscillation: Nonlinear Waves, Stochastic Dynamics, and Data Analysis
2016/5/30	Wei Xue	Massachusetts Institute of Technology	Dark Photon Search At Lh Cb
2016/6/1	Xiaohua Zhu	Peking University	Asymptotic Behavior of $\Kappa$ Noncollapsed Steady Ricci Solitons
2016/6/1	Radu Constantinescu	Department of Physics, University of Craiova	First Order Systems of Nonlinear ODEs with Chaotic Behavior
2016/6/1	Liqun Zhang	Academy of Mathematics and System Sciences, Chinese Academy of Sciences	Continuous Weak Solutions of Boussinesq Equations
2016/6/2	Roman Puzniak	Polish Academy of Sciences	Anisotropy and Phase Separation in Iron Based Superconductors
2016/6/5	Ning Jenny Jiang	Department of Biomedical Engineering, University of Texas at Austin	Immune Repertoire Profiling by High Throughput Sequencing and Single Cell Analysis
2016/6/6	Kyung Hyun Ahn	Seoul National University	A New Paradigm of Materials Processing
2016/6/6	Xiao He	Dalian Minzu University	Global Boundedness in Quasilinear Attraction Repulsion Chemotaxis System with Logistic Source
2016/6/7	Xiangdong Ji	Shanghai Jiao Tong University	Dark Matter
2016/6/7	Ke Han	Shanghai Jiao Tong University	Neutrino Physical Experiment
2016/6/7	Yong Yang	Shanghai Jiao Tong University	Data Collection of Particle Experiment and Electronics System
2016/6/7	Tao Sun	Shanghai Jiao Tong University	The biological basis of nervous system diseases
2016/6/7	Gabriele Floris	Shanghai Jiao Tong University	Circular RNA, An Emerging Noncoding RNA
2016/6/8	Jie Zhang	Institute of Natural Sciences,	Density of Vibrations in Granular Solids

		Shanghai Jiao Tong University	Ranging from Crystals to Glasses
2016/6/8	Dong Lai	Cornell University	Extreme Exoplanetary Systems: From Hot Jupiters to Tatooine Planets
2016/6/9	Wei Xiang	City University of Hong Kong	Convexity of Transonic Shock in the Self Similar Coordinates and the Applications
2016/6/12	Fuzhen Zhang	Nova Southeastern University	Polytopes of Stochastic Tensors
2016/6/14	Hongbin Shen	Shanghai Jiao Tong University	Biological Complex Networks
2016/6/14	Dan Czajkowsky	Shanghai Jiao Tong University	Single Molecule Biophysics
2016/6/14	Xiaowei Li	Shanghai Jiao Tong University	Seeing is believing, from Nano to Macro
2016/6/14	Wanbin Zhang	Shanghai Jiao Tong University	Development and Application of Highly Effective Asymmetric Catalysis for Synthesis of Important Medicines Including Artemisinin
2016/6/14	Xianmin Jin	Shanghai Jiao Tong University	Photonic Integration and Quantum Information: Photonic Chips and Quantum memory
2016/6/14	Hao Tang	Shanghai Jiao Tong University	Two Dimensional Quantum Walk Based on Waveguide Arrays
2016/6/14	Zhen Feng	Shanghai Jiao Tong University	Infinite Probabilities on Photonic Chips
2016/6/14	Michael Berry	the National Academy of Science of the USA	Divergent Series: From Thomas Bayes's Bewilderment to Today's Resurgence via The Rainbow
2016/6/15	Jinwu Ye	University of Mississippi and Capital Normal University	Strongly Interacting Spinor Bosons or Fermions with Spin Orbit Couplings in Lattice Systems
2016/6/15	Eric King-Wah Chu	Monash University	Structure Preserving Doubling Algorithms-Rediscovery, Redevelopment and Applications
2016/6/16	Ruibao Ren	Shanghai Jiao Tong University	Targeting RAS in Cancer
2016/6/16	Jianbo Wu	Shanghai Jiao Tong University	Nanocatalyst Material
2016/6/16	Chengyi Song	Shanghai Jiao Tong University	Bionic Thermal Conversion Material
2016/6/16	Junliang Zhang	Shanghai Jiao Tong University	Fuel Cells with Ultra-Low Platinum: Challenges and Solutions
2016/6/16	Baofu Qiao	Argonne Nation Laboratory	A Multiscale Understanding of Solvent Extraction for Rare Earth Elements Refinery
2016/6/16	Qunying Liao	Sichuan Normal University	Several Classes of Errors Correction Codes
2016/6/19	Man-Duen Choi	University of Toronto	The Principle of Locality Made Simple but Hard (1)

2016/6/20	Nedeljkov Marko	University of Novi Sad	Non Classical Solutions to Conservation Law Systems (1)
2016/6/21	Weijia Jia	Shanghai Jiao Tong University	Computer Networks
2016/6/21	Quan Chen	Shanghai Jiao Tong University	Scheduling of Multi-Core Processors
2016/6/21	Chentao Wu	Shanghai Jiao Tong University	Mass Data Storage System
2016/6/21	Jicun Ren	Shanghai Jiao Tong University	Single-Molecule Methods on Molecular Interactions in Living Cells.
2016/6/21	Bob Eisenberg	Rush University Medical Center	Mathematics in Molecular Biology: Open Channels
2016/6/21	Man-Duen Choi	University of Toronto	The Principle of Locality Made Simple but Hard (2)
2016/6/21	Yongge Tian	Central University of Finance and Economics	Matrix Inertia Theory and Its Applications
2016/6/22	Julie Kornfield	California Institute of Technology	Helping the Corneal Stroma Stay in Shape
2016/6/22	Dan Zhou	California Institute of Technology	Finding the Binding Site Of Luminate®, A Therapeutic Peptide for Retinal Disease
2016/6/22	Yan Jie	National University of Singapore	Quantifying Force Dependent Interactions of Mechanosensing Proteins
2016/6/22	Man-Duen Choi	University of Toronto	The Taming of the Shrew
2016/6/22	Nedeljkov Marko	University of Novi Sad	Non Classical Solutions to Conservation Law Systems (2)
2016/6/23	Yanni Zeng	University of Alabama at Birmingham	Structural Conditions for Balance Laws from Continuum Mechanics
2016/6/24	Man-Duen Choi	University of Toronto	The Eden Garden of Sums of Squares
2016/6/24	Jie Sun	Department of Mathematics, Clarkson University	Information Theoretic Reverse Engineering of Complex Networks
2016/6/28	Li Yang	Washington University in St. Louis	Black Phosphorus and Beyond
2016/6/29	Haizhao Yang	Duke University	Preconditioning Orbital Minimization Method for Planewave Discretization
2016/6/30	Tao Luo	City University of Hong Kong	On the Physical Vacuum Free Boundary of Viscous Gaseous Stars
2016/6/30	Haizhao Yang	Duke University	Butterfly Algorithm and Butterfly Factorization
2016/6/30	Mikhail Korobkov	Sobolev Institute of Mathematics	On the Morse Sard Theorem for the Sharp Chinese Academy of Science of Sobolev Mappings and Applications in Fluid Mechanics
2016/6/30	Tao Hu	FB Oculus	The History and Future of Virtual Reality Technology

2016/6/30	Xiaochao Yao	HTC Vive	The History and Future of Virtual Reality Technology
2016/7/1	Andriy Baumketner	NAS Ukraine	Phase Transitions and Cluster Formation in Aqueous Solutions of Protein Lysozyme
2016/7/4	Guowu Meng	The Hong Kong University of Science and Technology	Kepler Problem and Lorentz Transformation
2016/7/5	Jingsong He	Ningbo University	Modelling Optical Rogue Wave Through the Dnls Equation
2016/7/5	Li Tang	École Polytechnique Fédérale de Lausanne	Enhancing T Cell Therapy through Tcr Signaling Responsive Nanoparticle Drug Delivery
2016/7/5	Xuwen Zhu	Stanford University	Degenerate Hyperbolic Surfaces and Asymptotics of Weil Petersson Metric
2016/7/5	Semyon Dyatlov	Massachusetts Institute of Technology	Resonances in Dynamical Systems and Scattering Theory
2016/7/6	Tony Cai	The Wharton School, University of Pennsylvania	Recovery of High Dimensional Low Rank Matrices and Its Applications
2016/7/8	Baofeng Feng	The University of Texas Rio Grande Valley	A Complex Short Pulse Equation of Defocusing Type
2016/7/8	O.G.Smolyanov	Lomonosov Moscow State University	Feynman Path Integrals and Feynman Formulas
2016/7/12	Alexander Mednykh	Sobolev Institute of Mathematics	Coverings of Graphs and Uniformisation Theory
2016/7/12	Bobo Hua	Fudan University	Some Problems on Steklov Eigenvalues on Graphs
2016/7/12	Alexander Mednykh	Sobolev Institute of Mathematics	Spanning Trees
2016/7/12	Jihoon Ok	Korea Institute for Advanced Study	Regularity Results for Elliptic and Parabolic Equations with Variable Growth
2016/7/12	Hongming Yin	Washington State University	On the American Option Pricing Model with a Nonlinear Volatility
2016/7/13	Greg Huber	Kavli Institute for Theoretical Physics, and Department of Physics, University of California, Santa Barbara	Terasaki Ramps: A Glimpse into the Geometrical Architecture of the Cell
2016/7/15	Alexander Mednykh	Sobolev Institute of Mathematics	Branched Coverings of Graphs
2016/7/20	Qi Cheng	University of Oklahoma	The Discrete Logarithms and the Algorithms

2016/7/21	Weiran Sun	Simon Fraser University	Fractional Diffusion Limits of Non Classical Transport Equations
2016/7/25	Bin Cheng	University of Surrey	Existence of Global Weak Solutions to a Hybrid Vlasov-MHD Model for Magnetized Plasmas
2016/7/26	Hyonju Yu	Pohang University of Science and Technology	On Hoffman Graph
2016/8/4	Yao Li	Department of Mathematics and Statistics, University of Massachusetts Amherst	Systematic Measures of ODE-Modeled Complex Networks
2016/8/5	Weimin Han	University of Iowa	Hemivariational Inequalities: Theory and Numerical Analysis
2016/8/5	Ming Han	Northwestern University	Active Janus Colloids
2016/8/8	Yifei Lou	University of Texas Dallas	The Difference of L1 and L2 for Compressive Sensing and Image Processing
2016/8/10	Long Chen	University of California at Irvine	Numerical Methods for Elliptic Equations on Polyhedral Meshes
2016/8/11	Long Chen	University of California at Irvine	An Interface Fitted Mesh Generator and Virtual Element Methods for Elliptic Interface Problems
2016/8/24	Tao Wu	Weierstrass Institute	Bilevel Optimization and Applications in Imaging Sciences I
2016/8/25	Tao Wu	Weierstrass Institute	Bilevel Optimization and Applications in Imaging Sciences II
2016/9/7	Mikio Nakahara	Kindai University	Decoherence Free Subspace, Noiseless Subsystem and Group Representation

Zhiyuan College Student Seminars, 2013~2016 (21)

Date	Speakers	Affiliation	Title
2013/11/21	Qingtao Xu	Zhiyuan College, Class of 2015, Life Science	Film Appreciation
2013/12/12	Keyi Wu	Zhiyuan College, Class of 2015, Mathematics	The World of Cipher
2014/3/14	Yuxi Zhao	Zhiyuan College, Class of 2015, Physics	Distance Measurement in Astronomy
2014/10/10	Shiyue Yang	Zhiyuan College, Class of 2016, Chemistry	HIP-HOP
2014/10/31	Gefei Xu	Zhiyuan College, Class of 2016, Chemistry	Succulent Plants
2014/12/5	Yiyi Zhang	Zhiyuan College, Class of 2016, Computer Science	Architectures in Shanghai
2014/12/9	Banruo Huang	Zhiyuan College, Class of 2016, Chemistry	Future Synthesizer: Chemistry, Biology and Algorithm
2015/3/26	Lequn Chen	Zhiyuan College, Class of 2017, Computer Science	To See the World and Humanity from Black Mirror
2015/4/10	Nuo Chen	Zhiyuan College, Class of 2017, Physics	The New Era of Astronomy, to Find the Next Earth
2015/05/13	Yifan Xu	Zhiyuan College, Class of 2017, Mathematics	The Mathematics That You Don't Know
2015/5/16	Dongping Qi	Zhiyuan College, Class of 2016, Mathematics	The Study of Etymology
2015/5/29	Gefei Xu	Zhiyuan College, Class of 2016, Chemistry	Food and Culture
2015/5/29	Alex , Ted , Hsin-Jung Yu	University of Pennsylvania	Food and Culture
2015/6/4	Tianyao Chen	Zhiyuan College, Class of 2017, Computer Science	The View of the Galaxy
2015/10/22	Songyu Ke	Zhiyuan College, Class of 2017, Computer Science	Ancient China with Policy of Physiocracy and Restriction of Business
2015/11/19	Yuxing Ren	Zhiyuan College, Class of 2017, Physics	The Origin and Current Situation of Ancient Music
2015/12/5	Jie Zhao	Zhiyuan College, Class of 2018, Physics	The Psychological Explanation for Irrational Shopping
2016/3/10	Yuelin Shi	Zhiyuan College, Class of 2016, Life Science	Lead a Life of a Queen
2016/3/24	Chang Liu	School of Naval Architecture, Ocean and Civil Engineering	The Study of Naval Architecture and Ocean Engineering

| 2016/4/12 | Yiyi Zhang Yu Zhang | Zhiyuan College, Class of 2016, Computer Science; High School Affiliated to Shanghai Jiao Tong University | The Communication between Two Mayor's Award Owners |