



# Theoretical Elementary Particle Physics

## UCLA TEP Seminar Archives

Summer 2017		
Date	Speaker	Talk Title
Tuesday, June 20	Boris Pioline (CERN, Université Pierre et Marie Curie)	Protected couplings and BPS black holes
Spring 2017		
Date	Speaker	Talk Title
Tuesday, June 6	Valentina Prilepina (UC Davis)	Pitting Weyl against Conformal Invariance in Quantum Field Theory: Does Conformal Imply Weyl Invariance?
Tuesday, May 23	Sergio Ferrara (UCLA, CERN)	Superconformal Formulation of Supergravity
Tuesday, May 16	Dan Xie (Harvard University)	3-fold canonical singularity and 5d N=1 SCFT
Monday, May 15	<b>Bhaumik Luncheon Seminar:</b> • Rahul Roy (UCLA) • Dolores Bozovic (UCLA)	<ul style="list-style-type: none"> <li>• Topology and phases of non-equilibrium driven systems</li> <li>• Physics of Hearing</li> </ul>
Thursday, May 11	Thomas Dumitrescu (Harvard University)	Aspects of Supersymmetric Field Theories in Curved Space
Tuesday, May 9	Gabriel Wong (University of Virginia)	Entanglement branes in a two-dimensional string theory
Tuesday, May 2	Efrat Gerchkovitz (Weizmann Institute)	Vortices in 4d, N=2 SQCD and their Worldsheet Theory from Supersymmetric Localization
Tuesday, Apr 18	<b>Bhaumik Lecture: Sudip Chakravarty (UCLA)</b>	Superconductivity!
Wednesday, Apr 5	Tom Hartman (Cornell)	Causality and Universality at Strong Coupling
Tuesday, Apr 4	Chiara Toldo (Columbia University)	AdS4 black holes from M-theory
Winter 2017		
Date	Speaker	Talk Title
Tuesday, Mar 21	<b>Bhaumik Luncheon Seminar:</b> • Shenshen Wang (UCLA) • Paul Hamilton (UCLA) • David Saltzberg (UCLA)	<ul style="list-style-type: none"> <li>• Wonders of the adaptive immune system</li> <li>• Precision AMO tools for fundamental physics</li> <li>• Large-Area Particle Physics: Borrowing from Stokes's Theorem and Stealing from Accelerator Physics</li> </ul>
Monday, Mar 6	Tongyan Lin (UC Berkeley)	Exploring the low mass frontier in dark matter direct detection
Thursday, Mar 2	David Curtin (University of Maryland)	Hidden Sectors and New Signatures
Monday, Feb 27	Eric Perlmutter (Princeton University)	Scattering in Quantum Gravity and the Conformal Bootstrap
Thursday, Feb 23	Jacob Bourjaily (University of	The Surprising Simplicity of Scattering

	Copenhagen)	Amplitudes
Wednesday, Feb 22	Ellis Yuan (Institute for Advanced Study)	Projective geometry of scattering amplitudes
Tuesday, Feb 21	Oliver Schlotterer (Max-Planck-Institut für Gravitationsphysik)	Strings tying gauge theories to gravity
Tuesday, Feb 14	Finn Larsen (University of Michigan)	Logarithmic Corrections to Black Hole Entropy
Thursday, Feb 9	Anson Hook (Stanford University)	Confronting the strong CP problem at the LHC
Tuesday, Feb 7	<b>Bhaumik Lecture: Frank Wilczek</b> (MIT, Stockholm University, Arizona State University, Zhejiang University of Technology)	Augmenting Reality: Axions, Anyons, and Entangled Histories
Monday, Feb 6	Thomas Dumitrescu (Harvard University)	New Tools for Exploring Strongly Coupled Quantum Field Theories
Tuesday, Jan 31	Ken Intriligator (UCSD)	Phases and RG flows of 4d (susy) gauge theories
Wednesday, Jan 25	Brian Willett (UCSB)	The twisted superpotential of 3d N=2 theories
Tuesday, Jan 24	<b>Bhaumik Lecture: Claudio Pellegrini</b> (Stanford & UCLA)	Exploring matter at the angstrom-femtosecond space and time scales with X-ray free-electron lasers
Wednesday, Jan 18	Dorota Grabowska (UC Berkeley)	Understanding Chiral Gauge Theories via Extra Dimensions
Tuesday, Jan 17	Gabriele Veneziano (Collège de France, Paris)	Recent progress on gravitational bremsstrahlung from transplanckian-energy collisions
<b>Fall 2016</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, Dec 6	<b>Bhaumik Lecture: Nima Arkani-Hamed</b> (Institute for Advanced Study)	Unification and Fundamental Physics: A Status Report
Monday-Friday Dec 5-9	<b>QCD Meets Gravity Workshop</b>	
Monday, Nov 28	<b>Bhaumik Luncheon Seminar:</b> <ul style="list-style-type: none"> <li>• Smadar Naoz (UCLA)</li> <li>• Robijn Bruinsma (UCLA)</li> <li>• Wes Campbell (UCLA)</li> </ul>	<ul style="list-style-type: none"> <li>• AstroDynamics Here and There AstroDynamics Everywhere</li> <li>• The use of quantum mechanics to solve traffic problem on biopolymers</li> <li>• The Swiss Army Knife of Experimental Physics</li> </ul>
Tuesday, Nov 22	Congkao Wen (Caltech)	Constraining effective actions via scattering amplitudes
Thursday, Nov 17	Jerome Gauntlett (Imperial College, London)	Black Holes and Thermoelectric Transport
Tuesday, Nov 15	Elias Kiritsis (Universtiy of Crete)	Holography and the tuning of the cosmological constant
Monday, Nov 7	Kristan Jensen (San Francisco State University)	Schwinger-Keldysh fluid dynamics
Tuesday, Nov 1	Lars Brink (Chalmers University of Technology, Sweden)	Exceptional vs superPoincaré algebra as the defining symmetry of maximal Supergravity
Tuesday, Oct 25	Parijat Dey (Indian Institute of Science, Bangalore)	Mellin space analytic bootstrap for O(N) models
Friday, Oct 21	<b>Southern California Strings Seminar</b> (hosted at UCLA)	
Tuesday, Oct 18	Eric D'Hoker (UCLA)	Five-dimensional gauge theory via holography
Monday-Wednesday Oct 10-12	<b>California Amplitudes Meeting</b>	

Tuesday, Oct 4	Victoria Lynn Martin (Stanford University)	Spectral Weight in Holographic Superfluids <a href="#">t</a>
Tuesday, Sept 27	Matthew Walters (Boston University)	Studying IR Dynamics with Conformal Truncation

### Spring 2016

Date	Speaker	Talk Title
<b>Finkelstein Centennial Seminar:</b> Tuesday, May 24	<b>Robert Finkelstein (UCLA)</b>	The $Sl_q(2)$ Extension of the Standard Model II
Monday, May 23	TEPAPP Seminar	
Tuesday, May 17	TEPAPP Seminar	
Tuesday, May 17	<b>SoCal Grad Strings and Fields (SCGSF)</b> hosted at Caltech	
Thursday, May 5 Friday, May 6	<b>Southern California Strings Seminar</b> hosted at UCSB / KITP	
Tuesday, April 26	Sergio Ferrara (UCLA)	The Minimal Supersymmetric Inflationary Model (MSIM)
Tuesday, April 19	Jonathan Maltz (UC Berkeley)	Chaos in matrix models and black hole evaporation
Monday, April 18	TEPAPP Seminar	
Tuesday, April 12	Alex Maloney (McGill University)	Black Holes, Holography and Quantum Gravity in Three Dimensions
Tuesday, April 5	TEPAPP Seminar	
Tuesday, March 29	Lampros Lamprou (Stanford University)	A Stereoscopic Look into the Bulk

### Winter 2016

Date	Speaker	Talk Title
Monday, March 14	Jacob Bourjaily (Niels Bohr Institute, University of Copenhagen)	Grassmannian Geometry of Scattering Amplitudes
Monday, March 7	Xi Dong (Institute for Advanced Study)	Entanglement, Gravity, and Quantum Information
Thursday, March 3	Brian Swingle (Stanford University)	Measuring Quantum Information Scrambling
Monday, Feb 29	Andrea Puhm (UC Santa Barbara)	Microscopic Structure of Black Holes
Thursday, Feb 25	Aron Wall (Institute for Advanced Study)	Negative Energy and the Focussing of Light Rays
Monday, Feb 22	Simon Caron-Huot (Niels Bohr Institute, University of Copenhagen)	The quest for precision in particle physics
Tuesday, Feb 16	Daniel Harlow (Harvard University)	Bulk Locality and Quantum Error Correction in AdS/CFT
Tuesday, Jan 12	Alec Ridgway (Caltech)	Spherically Symmetric Kerr-Schild Metrics and the Classical Double Copy

### Fall 2015

Date	Speaker	Talk Title
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Tuesday, Dec 8	John Fuini (University of Washington)	Far-from-equilibrium dynamics of a strongly coupled non-Abelian plasma with non-zero charge density or external magnetic field
Friday, Dec 4	<b>Southern California Strings Seminar</b> hosted at UCLA	
Thursday, Dec 3	Tommi Tenkanen (University of Helsinki)	Cosmological constraints on Dark Matter properties
Tuesday, Dec 1	Doojin Kim (University of Florida)	Interpreting Cosmic Ray Signals "Energy-peak" Way
Monday, Nov 30	Ulrich Schubert (Max-Planck Institute for Physics in Munich)	New Developments for Scattering Amplitudes
Tuesday, Nov 24	Christoph Uhlemann (University of Washington)	Supersymmetric flavors on curved space and a precision test of AdS/CFT
Tuesday, Nov 17	Swapnamay Mondal (Harish-Chandra Research Institute, India)	Black hole microstate counting using pure D brane systems
Monday, Nov 16	Dmitri Semikoz (APC Paris)	Looking for the origin of astrophysical neutrinos
Thursday, Nov 12	Michael Green (University of Cambridge)	Modular properties of superstring scattering amplitudes
Tuesday, Nov 10	Edgar Shaghoulian (UCSB)	Modular forms and black hole entropy
Thursday, Oct 29	Aleksey Cherman (University of Washington)	Emergent symmetries and 4D-2D relations for confining large N gauge theories
Monday, Oct 26	Zuhair Khandker (Boston University)	Twistor methods for superconformal blocks
Tuesday, Oct 20	Dean Carmi (Tel-Aviv University, Israel)	Shape dependence and RG flow of entanglement entropy
Tuesday, Oct 13	Bogdan Stoica (California Institute of Technology)	The Holographic Entropy Cone
Tuesday, Oct 6	Alexandros Anastasiou (Imperial College London)	Gravity as the square of Yang-Mills
Monday, Sept 28	Anupam Mazumdar (Lancaster University)	Ghost free and singularity free theory of gravity

### Spring 2015

Date	Speaker	Talk Title
Monday, June 8	Adam Bzowski (KU Leuven)	Conformal Invariance in Momentum Space
Tuesday, May 26	Alexandre Belin (Stanford University)	String Universality for Permutation Orbifolds
Monday, May 18	Augusto Sagnotti (Scuola Normale and CERN)	String Theory clues for the low $\ell$ CMB ?
Tuesday, May 12	Sergio Ferrara (UCLA and CERN)	Nilpotent Superfields, Born-Infeld Duality and Supersymmetry Breaking
Tuesday, May 5	Kellogg Stelle (Imperial College London)	Localizing gravity on branes in infinite spaces
Monday, April 27	Henry Maxfield (Durham University)	Topology and holographic entanglement entropy
Tuesday, April 21	Dalit Engelhardt (UCLA)	Quench dynamics in confined 1+1-dimensional systems
Thursday, April 17	<b>Southern California Strings Seminar</b> hosted at USC	
Tuesday, April 14	Andrew Spray (CoEPP, Australia)	The Unnatural Composite Higgs
Friday, April 10	Itay Yavin (McMaster University and Perimeter Institute)	New frontiers in particle physics
Monday, April 6	Jonathan Walsh (UC Berkeley)	The Frontier of the Standard Model
Friday, April 3	Matthew Reece (Harvard University)	Searching for Supersymmetry, Natural or Not

Monday, March 30	Chiara Arina (Insitut d'Astrophysique de Paris and Université Pierre et Marie Curie (Paris 6))	A WIMP view of particle dark matter: from data analysis to theoretical models
<b>Winter 2015</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Monday, Mar 9	Jaroslav Trnka (California Institute of Technology)	Geometric picture for scattering amplitudes
Friday, March 6	Yanou Cui (Perimeter Institute)	New Insights into Cosmic Abundances of Matter and Related Phenomenology
Thursday, March 5	Blaise Goutéraux (Stanford University)	Metals, insulators and momentum dissipation in holography
Monday, Mar 2	Liam Fitzpatrick (Stanford University)	Universal Dynamics from the Conformal Bootstrap
Thursday, Feb 26	Simeon Hellerman (IPMU, Tokyo)	BIG J
Monday, Feb 23	Matthew Buckley (Rutgers University)	Dark Matter in the Age of Data
Friday, Feb 20	Stefania Gori (Perimeter Institute)	Discovering new particles after the Higgs
Tuesday, Jan 27	William Kelly (UCSB)	Making sense of the Generalized Entropy of Gauss-Bonnet Gravity
Monday, Jan 12	Yue Zhao (Stanford University)	The AdS <sub>3</sub> /CFT <sub>2</sub> Avatar of the (Little) Hierarchy Problem
<b>Fall 2014</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, Dec 9	Richard Davison (Leiden University)	Holographic momentum dissipation and effective theories of transport
Tuesday, Nov 25	Christoph Uhlemann (University of Washington)	Holographic entanglement entropy, probe branes & non-Fermi liquids
Monday, Nov 24	James Unwin (University of Notre Dame)	Freeze-in Dark Matter
Friday, Nov 21	Mikhail Shifman (University of Minnesota)	New Exact Results in Supersymmetry in Two and Four Dimensions
Tuesday, Nov 18	Jonathan David Maltz (Tokyo University and IPMU)	Deconfinement transition as black hole formation by the condensation of QCD strings
Friday, Nov 14	<b>Southern California Strings Seminar</b> hosted at UCLA	
Thursday, Nov 13	Falk Hassler (LMU Munich)	String Geometry Beyond the Torus
Tuesday, Nov 4	Benjamin Withers (University of Southampton)	Checkerboard black branes and inhomogeneity in AdS/CFT
Tuesday, Oct 28	Farinaldo Da Silva Queiroz (UC Santa Cruz)	On the connection of the Dark and Visible Sectors
Tuesday, Oct 21	Herb Fried (Brown University)	An Exact, Finite, Gauge-Invariant, Non-Perturbative Model of QCD Renormalization
Tuesday, Oct 14	Sergio Palomares-Ruiz (Instituto de Física Corpuscular (IFIC) València, Spain)	On the flavor composition of the high-energy neutrinos in IceCube
Tuesday, Oct 7	Vladimir Kazakov (Ecole Normale Supérieure and University of Paris)	Quantum spectral curve of N=4 SYM and its BFKL limit
<b>Summer 2014</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>

Tuesday, Sept 30	Radu Roiban (Penn State University)	A twistor string for the ABJ(M) theory
Monday, Sept 29	Mads Søgaard (Niels Bohr Institute)	Direct Extraction of Multiloop Integral Coefficients
Tuesday, Sept 16	Leo Hughes (Imperial College)	A Magic Pyramid of Supergravities
<b>Spring 2014</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, June 10	Pierre Salati (LAPTh, Université de Savoie)	The cosmic ray positron excess: the revenge of orthodoxy
Tuesday, June 3	Hai-Bo Yu (UC Riverside)	Beyond Collisionless Dark Matter
Monday, June 2	Philip "Flip" Tanedo (UC Irvine)	Heavy Hidden Hooperon
Tuesday, May 27	Haoning He (UCLA and Purple Mountain Observatory)	The possible origins of Sub-PeV to PeV neutrinos observed by the IceCube
Tuesday, May 20	Massimo Porrati (NYU)	Single-field Inflationary Models in Supergravity
Tuesday, May 13	Brian Shuve (Perimeter Institute)	Shedding New Light on Sterile Neutrinos
Monday, May 12	Robert Finkelstein (UCLA)	The Preon Sector of the $SL_q(2)$ Model and the Binding Problem
Tuesday, May 6	Aitor Lewkowycz (Princeton University)	Exact results for the entanglement entropy and the energy radiated by a quark
Tuesday, April 22	Guillaume Bossard (École Polytechnique)	Supersymmetry constraints on type II effective actions
Monday, April 21	Sergio Ferrara (UCLA)	"The Volkov-Akulov-Starobinsky Supergravity"
Tuesday, April 15	Benedict Fraser (Swansea University)	Lifshitz geometries from backreacted Wilson lines
<b>Winter 2014</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, March 18	Eric Braaten (Ohio State)	Making Sense of the XYZ Mesons using the Born-Oppenheimer Approximation
Monday, March 10	Aron Wall (UC Santa Barbara)	The Generalized Second Law as a Quantum Singularity Theorem
Tuesday, March 4	Johannes Henn (IAS)	Evaluating Feynman integrals algebraically
Friday, February 28	Kenzo Ishikawa (Hokkaido University, Japan)	Finite-size Corrections to Fermi's Golden Rule
Tuesday, February 25	Rutger Boels (University of Hamburg)	A Color-Kinematic Duality Triptych
Tuesday, February 18	Nabil Iqbal (KITP)	Holographic Entanglement Entropy and Gravitational Anomalies
Monday, February 3	Jaroslav Trnka (Caltech)	The Amplituhedron
<b>Fall 2013</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, December 10	Gabriele Veneziano (CERN/Collège de France)	Transplanckian collisions of particles, strings and branes: what can (have) we learn(ed)?
Tuesday, December 3	Seodong Shin (Indiana University)	A New Avenue to Charged Higgs Discovery in Multi-Higgs Doublet Models
Tuesday, November 19	Sergio Ferrara (UCLA)	Minimal Models for Supergravity Inflation
Monday, November 18	Yang Zhang (Niels Bohr Institute)	Multi-loop unitarity via computational algebraic geometry

Tuesday, November 12	Rakibur Rahman (Université Libre de Bruxelles)	Gravitational Interactions of Higher-Spin Fermions
Tuesday, October 29	David Kubiznak (Perimeter Institute)	Kerr-AdS analogue of triple point and solid/liquid/gas phase transition
Friday, October 18	<b>Southern California Strings Seminar</b> hosted at UCSD	
<b>Spring 2013</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, June 4	Edgar Shaghoulian (Stanford University)	New CMB signatures of the string landscape
Monday, June 3	Shunsaku Horiuchi (UC Irvine)	When will the supernova neutrinos be detected, and what will they tell us?
Friday, May 31	<b>Southern California Strings Seminar</b>	
Tuesday, May 21	Robert Finkelstein (UCLA)	The Preon Sector of the $SL_q(2)$ (Knot) Model
Tuesday, April 30	Clifford Cheung (Caltech)	Prospects and Blind Spots for Neutralino Dark Matter
Monday, April 22	Atri Bhattacharya (Harish-Chandra Research Institute, India)	Ultra-high energy neutrino events at the IceCube and the Glashow resonance
Tuesday, April 16	Kasper Larsen (Nikhef, The Netherlands)	From trees to two loops by maximal unitarity
Monday, April 15	Sheldon Campbell (The Ohio State University, Center for Cosmology and AstroParticle Physics)	Uncovering Properties of Cosmic Dark Matter through Indirect Detection
Tuesday, April 9 <b>Jt. TEP/EEP Seminar</b>	Alexander Friedland (LANL)	Stellar Particle Physics
Tuesday, April 2	Debajyoti Sarkar (City University of New York)	Black Hole formation at the Correspondence Point
<b>Winter 2013</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, March 5	Wouter Waalewijn (UCSD)	Correlations in Double Parton Scattering
Tuesday, Feb 26	Henrik Johansson (CERN)	Supergravity from 2 and 3-Algebra Gauge Theory
Tuesday, Feb 12	Eduardo Guendelman (Ben-Gurion University of the Negev & Fresno State)	A two measure model of dark energy and dark matter
Tuesday, Jan 29	Eugenio Del Nobile (UCLA)	Generalizing the assumptions behind the usual interpretation of Dark Matter direct searches
Tuesday, Jan 8	Mikhail Shifman (FTPI, University of Minnesota)	Non-Abelian Strings in Supersymmetric Yang-Mills
<b>Fall 2012</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Friday, Dec 13	<b>Southern California Strings Seminar</b> hosted at UCSB	
Tuesday, Dec 4	Mihailo Cubrovic (Institute Lorentz, Leiden University)	Toward phase diagram of strongly correlated fermions from bottom-up AdS/CFT
Tuesday, Nov 27	Benson Way (UCSB)	Black Funnels
Tuesday, Nov 20	Ji-Haeng Huh (UCLA)	Complementarity in Direct Detection of Dark Matter

Tuesday, Nov 13	Yang Zhang (Neils Bohr Institute)	Integrand-level reduction of high-loop scattering amplitudes via computational algebraic geometry
Tuesday, Nov 6	Michael Gutperle (UCLA)	Holographic Boundary CFTs
Tuesday, Oct 30	Jorge Santos (UCSB)	Playing with Holographic Lattices
Tuesday, Oct 23	Matthew Roberts (New York University)	Entanglement Entropy, Disconnected Boundaries, and Thermo Field Doubling
Tuesday, Oct 16	Alexander Belikov (IAP Paris)	Indirect detection of dark matter at GeV and TeV scales
Tuesday, Oct 9	Stefan Leichenauer (Caltech)	Null Geodesics, Local CFT Operators, and AdS/CFT for Subregions
<b>Summer 2012</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, July 17	Cobi Sonnenschein (Tel Aviv University)	Baryonic popcorn or: holographic nuclear matter and multi-instanton chains and lattices
<b>Spring 2012</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Monday, June 4	Gerben Stavenga (Fermilab)	Non-perturbative proton stability
Tuesday, May 29	Sander Mooij (Nikhef, The Netherlands)	Sgoldstino inflation
Tuesday, May 22	Efunwande Osoba (Harish Chandra Research Institute, India)	Recent Developments in Fourth Generation Physics
Tuesday, May 15	Sergio Ferrara (UCLA)	Groups of type E7, degeneration and minimal coupling in Supergravity
Monday, May 14	Robert Finkelstein (UCLA)	A Quantum Group Extension of the Standard Model (continued)
Tuesday, May 8	Christoph Keller (Caltech)	The ABCDEFG of Instantons and W-algebras
Tuesday, April 24	Kelly Stelle (Imperial College London)	Supergravity divergences and puzzles
Monday, April 23	Harald Fritzsch	Composite Weak Bosons at the LHC
Tuesday, April 17	Bartosz Fornal (Caltech)	Standard model with compactified spatial dimensions
Tuesday, April 10	Alexander Kusenko (UCLA)	Cosmic connections: from cosmic rays to gamma rays, to cosmic backgrounds and magnetic fields
Tuesday, April 3 <b>Jt. TEP/EEP Seminar</b>	Bo Jayatilaka (Duke University)	Precision measurement of the W boson mass at CDF
<b>Winter 2012</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, Feb 28	Kohta Murase (Ohio State University)	Hadronic Emissions from Luminous Cosmic Explosions
Tuesday, Jan 24	Pierre van Baal (University of Leiden)	Calorons with non-trivial holonomy
Tuesday, Jan 10	Andrei Derevianko (University of Nevada-Reno)	Magic, precise, and electroweak
<b>Fall 2011</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, Nov 29	Maria Eugenia Cabrera (IFT, Universidad Autonoma de Madrid)	A Bayesian trek in the search of Supersymmetry and other New Physics at the LHC



Tuesday, Nov 22	Tohru Eguchi (Kyoto University)	K3 surface and Mathieu Group M24
Monday, Nov 21	Yu-tin Huang (UCLA)	Amplitudes from M theory
Tuesday, Nov 15	Massimo Taronna (Scuola Normale Superiore)	Higher-Spin Interactions: three-point functions and beyond
Tuesday, Nov 8	Bartłomiej Czech (UBC)	Three perspectives on eternal inflation
Tuesday, Nov 1	Jaewon Song (Caltech)	Renormalization (in)dependence of N=2 SCFT and 4d/2d correspondence
Tuesday, Oct 25	Aristomenis Donos (Imperial College)	Holographic stripes and helical superconductors
Monday, Oct 24	Herbert Fried (Brown University)	A New Analytic Non-Perturbative Gauge Invariant Realistic QCD
Friday, Oct 21	<b>Southern California Strings Seminar</b> hosted at UCLA	
Tuesday, Oct 11	Denis Bashkirov (Caltech)	Exploring symmetries in N>=6 Superconformal Quantum Field Theories in three dimensions
Monday, Oct 10	John M. Cornwall (UCLA)	Renormalization group invariance in the pinch technique
Tuesday, Oct 4	Johanna Erdmenger (MPI-Munich)	New insights into strongly coupled systems from holography: Finite isospin density, imbalanced mixtures, and non-universal shear viscosity
Monday, Oct 3	Janet Hung (Perimeter)	Holographic Renyi Entropy
Tuesday, Sept 20	Andy O'Bannon (U of Cambridge, UK)	On Stability and Transport of Cold Holographic Matter
Tuesday, Sept 6	Sergio Ferrara (CERN, UCLA)	Black Holes and Groups of Type E7
<b>Summer 2011</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Thursday, July 14, 2011	Amit Sever (Perimeter Institute)	Flux tubes, Integrability and the S-matrix of N=4 SYM
<b>Spring 2011</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, May 24, 2011	Emery Sokatchev (LAPTH, Annecy)	Triality scattering amplitudes/correlation functions/Wilson loops
Monday, May 23, 2011	Alessio Marrani (CERN)	Multi-centered Black Holes and Horizontal Symmetry
Wednesday, May 18, 2011	Nicole Bell (University of Melbourne)	Indirect Detection of Dark Matter - Electroweak Bremsstrahlung and Other Stories
Tuesday, May 17, 2011	Sergey Cherkis (Trinity College)	Super-Yang-Mills with Impurity Walls and Instantons on multi-Taub-NUT
Tuesday, May 10, 2011	David Skinner (Perimeter)	Correlation Functions, Wilson Loops and Scattering Amplitudes
Friday, May 6, 2011	<b>Southern California Strings Seminar</b> hosted at USC	
Tuesday, May 3, 2011	Stephan Stieberger (MPI Munich)	The harmony of superstring amplitudes: Implications from/to field-theory
Monday, May 2, 2011	Donald Marolf (UCSB)	Gauge/Gravity Duality Beyond the Unitarity bound
Tuesday, April 19, 2011	Paul Frampton (UNC)	Seeking Evolution of Dark Energy
Tuesday, April 12, 2011	Gil Paz (U Chicago)	The charge radius of the proton: a 5 sigma discrepancy
Monday, April 11, 2011	Sakura Schaefer-Nameki (Kings College)	The F-ate of GUTs
Tuesday, March 29, 2011	Alex Friedland (LANL)	Collective Oscillations of Supernova Neutrinos

<b>Winter 2011</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, March 15, 2011	CongKao Wen (Brown/KITP)	Twistor String and Grassmannian: Tree Amplitudes in N=4 SYM
Monday, March 7, 2011	Anastasios Taliotis (Arizona)	Heavy Ion Collisions from Evolving Geometries
Tuesday, March 1, 2011	Jason Evans (IPMU)	Low-Scale GMSB from Radiative R Symmetry Breaking
Tuesday, February 22, 2011	Harold Steinacker (Vienna U.)	Branes, N=4 gauge theory and gravity from the IIB matrix model
Tuesday, February 15, 2011	Henrik Johansson (CEA-Saclay)	Gravity as a Double Copy of Gauge Theory
Monday, February 7, 2011	Roberto Peccei (UCLA)	Hierarchical mass matrices and CP Violation
Friday, February 4, 2011	Nima Arkani-Hamed (IAS)	Space-Time, Quantum Mechanics and Scattering Amplitudes
Monday, January 31, 2011	Chad Kishimoto (UCLA)	keV Sterile Neutrinos in Astrophysics: Pulsar Kicks and Dark Matter
Monday, January 24, 2011	John M. Cornwall (UCLA)	Entropy, Confinement, and Chiral Symmetry Breaking
Tuesday, January 18, 2011	Michael Kiermaier (Princeton)	Counterterms in N=8 supergravity
Tuesday, January 11, 2011	Qaisar Shafi (University of Delaware)	Inflation, Gravity Waves and Dark Matter
Monday, January 10, 2011	Felix Aharonian (MPI, Germany/Dublin Inst. For Adv. Studies)	Exploring extreme particle accelerators with X-rays, gamma-rays and neutrinos
Tuesday, January 4, 2011	Dongsu Bak (Seoul University)	Phase Transitions in the U(1) Charged Sector of ABJM Theory
<b>Fall 2010</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, December 7, 2010	Yi-Zen Chu (Arizona State Univ.)	Part I: Don't Shake That Solenoid Too Hard: Particle Production from Aharonov-Bohm // Part II: The N-Body Problem in General Relativity from Perturbative (Quantum) Field Theory
Tuesday, November 30, 2010	Keith Copsey (Waterloo Univ.)	New Puzzles for AdS/CFT: Bubble Trouble
Monday, November 29, 2010	Gabriele Veneziano (CERN)	Transplanckian collisions of particles, strings, and branes
Tuesday, November 23, 2010	Joao Gomes (University of Paris)	Exact results in black hole entropy counting
Monday, November 22, 2010	Chris Fronsdal (UCLA)	Relativistic Thermodynamics
Tuesday, November 16, 2010	Gianfranco Bertone (CNRS & Univ. of Zurich)	Identifying Dark Matter Particles
Tuesday, November 9, 2010	Wen-Yu Wen (National Taiwan University/Caltech)	Quantum Criticality in Einstein-Maxwell-Dilaton Gravity
Monday, November 8, 2010	Robert Finkelstein (UCLA)	A Possible SLq(2) Substructure of the Standard Model
Tuesday, November 2, 2010	Pierre Artoisenet (Ohio State Univ.)	Automation of the matrix element reweighting method
Tuesday, October 26, 2010	Oleg Kalashev (Moscow, INR)	Propagation of ultrahigh-energy cosmic rays
Tuesday, October 19, 2010	Sergio Ferrara (CERN & UCLA)	Matrix Norms, BPS Bounds and Marginal Stability in N=8 Supergravity
Monday, October 18, 2010	Antoine Calvez (UCLA)	Galactic Sources, Magnetic Fields and the Energy-Dependent composition of UHECRs

Friday, October 15, 2010	Yannick Meurice (University of Iowa)	Renormalization Group flows in the complex coupling plane: a new perspective on mass gaps and color confinement
Tuesday, October 12, 2010	Noppadol Mekareeya (Imperial College)	Chiral Operators on Hypermultiplet Moduli Spaces
Monday, October 11, 2010	Kumiko Kotera (Univ. of Chicago)	A quest for sources of ultrahigh energy cosmic rays
Tuesday, October 5, 2010	Oliver Schlotterer (Munich)	Gauge multiplet tree amplitudes in pure spinor superspace
Monday, October 4, 2010	Shimon Rubin (Ben-Gurion Univ.)	Non-closed Universe and Zero Cosmological Constant from Normalized General Relativity
Friday-Saturday, October 1 – 2, 2010	<b>Southern California Strings Seminar</b> hosted at UCLA	
Tuesday, September 28, 2010	William Rubens (Imperial College)	The Black Hole/Qubit Correspondence
<b>Spring 2010</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, June 1, 2010	Devin Walker (Berkeley)	Distinguishing Different Types of Dark Matter at the LHC.
Tuesday, May 25, 2010	Nikolay Bobev (USC)	Charged Clouds in Gauged Supergravity
Monday, May 24, 2010	Philip Argyres (Cincinnati)	Mass Deformations of Rank-1 Superconformal Field Theories
Tuesday, May 18, 2010	Steve Carlip (UC Davis)	Spontaneous Dimensional Reduction in Short-Distance Quantum Gravity?
Monday, May 17, 2010	Plijin Yi (KIAS)	Holographic Baryons
Tuesday, May 4, 2010	Janet Hung (Perimeter)	1+1 d holographic quantum liquids
Tuesday, April 27, 2010	Itamar Yaakov (Caltech)	Exact Results for Wilson Loops in Superconformal Chern-Simons Theories with Matter
Monday, April 19, 2010	Yu-tin Huang (UCLA)	Superconformal scattering amplitudes in 3 and 6D
Monday, April 5, 2010	John M. Cornwall (UCLA)	Positivity Issues in QCD
Winter 2010		
Monday, March 15, 2010	Warren Essey (UCLA)	Cosmic Ray Astronomy with Secondary Gamma Rays and Neutrinos
Tuesday, March 9, 2010	Clifford Cheung (Berkeley)	Goldstini
Tuesday, March 2, 2010	Diego Trancanelli (UCSB)	A supermatrix model for AdS <sub>4</sub> /CFT <sub>3</sub>
Tuesday, February 23, 2010	Shigehiro Nagataki (YITP)	Numerical High-Energy Astrophysics
Monday, February 22, 2010	Yael Shadmi (Technion/UCI)	Flavor at the LHC
Tuesday, February 16, 2010	Moira Gresham (CalTech)	Primordial Power Spectra from Anisotropic Inflation
Tuesday, February 9, 2010	Masahito Yamazaki (IPMU University of Tokyo)	Crystal Melting and Wall Crossing Phenomena
Tuesday, February 2, 2010	Arthur Lipstein (CalTech)	One-Loop Corrections in AdS <sub>4</sub> x CP <sup>3</sup>
Monday, January 25, 2010	Shamit Kachru (KITP)	New Horizons in AdS/CFT
Tuesday, January 12, 2010	Joe Polchinski (KITP)	Semi-holographic Fermi Liquids
Monday, January 11, 2010	Jerome Gauntlet (Imperial College)	Holographic Superconductivity in M-Theory
Tuesday, January 5, 2010	Ido Ben-Dayan (Ben-Gurion Univ.)	Small Field Models of Inflation
<b>Fall 2009</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, December 1, 2009	Ido Adam (MPI Potsdam)	On Integrable Backgrounds Self-dual under Fermionic T-duality.
Tuesday, November 24, 2009	Tameem Albash (USC)	Phenomenological AdS/CFT: Applications to Superconductors

Tuesday, November 17, 2009	Kristan Jensen (UW, Seattle)	Mirror Symmetry and M2 branes
Tuesday, November 10, 2009	Daniel Grin (CalTech)	Two cosmological aspects of $\sim eV$ scale physics.
Monday, November 9, 2009	Christoph Sieg (Niels-Bohr Institut)	Perturbative spectra in gauge theories with gravity duals at four loops and beyond.
Tuesday, November 3, 2009	Guiseppe Dito (Universite de Bourgogne)	Asymptotic QED and Representation Theory
Monday, November 2, 2009	Yu-tin Huang (UCLA)	Superspaces for maximal super Yang-Mills in four and six dimensions.
Tuesday, October 27, 2009	Johannes Broedel (MPI Berlin)	Constraints from $E_7$ on the $R^4$ counterterm in maximal supergravity?
Monday, October 26, 2009	Brian Shieh (Perimeter)	Holographic effective theories for condensed matter physics.
Monday, October 19, 2009	John Joseph M. Carrasco (UCLA)	Relations between gravity and gauge theory amplitudes, and their multiloop applications.
Tuesday, October 13, 2009	Omid Saremi (McGill University, Montreal)	Hydrodynamic Long-time Tails from AdS/CFT
Tuesday, October 6, 2009	Mu-Chun Chen (UC Irvine)	Geometrical Origin of CP Violation
Monday, October 5, 2009	Martin Ammon (MPI Munich)	Transport coefficients and Holographic (Super-)fluids in the D3/D7 model
Tuesday, September 22, 2009	Ivo Sach (Munich)	On a consistent chiral gravity in 2+1 dimensions.

### Spring 2009

Date	Speaker	Talk Title
Tuesday, June 2, 2009	Henrik Johansson (UCLA)	The Ultraviolet Behavior of $N = 8$ Supergravity at Four Loops and Beyond
Monday, June 1, 2009	Sandor Katz (Eotvos Lorand University)	Recent lattice results on the QCD phase diagram
Tuesday, May 26, 2009	Bob Finkelstein (UCLA)	$SL_q(2)$ , Knots, and Preons
Tuesday, May 19, 2009	Emery Sokatchev (Savoie)	Dual Superconformal Symmetry of Scattering Amplitudes in $N=4$ Super-Yang-Mills
Monday, May 18, 2009	Aneesh Manohar (UCSD)	Electroweak Radiative Corrections at LHC Energies.
Tuesday, April 21, 2009	Mike Cornwall (UCLA)	The running charge and the gluon mass
Tuesday, April 14, 2009	Matthew Johnson (CalTech)	Dynamical compactification from higher dimensional de Sitter space
Tuesday, April 7, 2009	Mark Wise (CalTech)	The Lee-Wick Standard Model
Tuesday, March 31, 2009	David Berenstein (Santa Barbara)	Aspects of strongly coupled SCFT's
Winter 2009		
Monday, March 16, 2009	Steven Avery (Ohio State)	The Vertex Operator for Emission out of $AdS_3$
Tuesday, March 10, 2009	Don Marolf (Santa Barbara)	Unitarity and Holography in Gravitational Physics
Monday, March 9, 2009	Fabio Siringo (University of Catania)	The Gaussian Effective Potential Revisited: a Non-Perturbative Approach to the SM Higgs Sector and Beyond
Tuesday, March 3, 2009	Leonidas Moustakas (JPL)	Constraining the nature of dark matter through strong gravitational lensing
Monday, March 2, 2009	Geoffrey Mills (Los Alamos)	Nus and Anti-Nus from MiniBooNE
Tuesday, February 24, 2009	Tony Zee (KITP)	Galactic communication using neutrinos
Tuesday, February 17, 2009	Joseph Marsano (Caltech)	Supersymmetry Breaking in F-Theory GUTs
Tuesday, February 10, 2009	Anupam Mazumdar (Lancaster U. / Niels Bohr Institute)	Inflation, past, present and future
Monday, January 26, 2009	Masahito Yamazaki (University of Tokyo)	Crystal Melting and Toric Calabi-Yau Manifolds

Tuesday, January 13, 2009	Gary Horowitz (Santa Barbara)	Holographic Superconductors
Monday, January 12, 2009	Chris Fronsdal (UCLA)	Heat and Gravitation
<b>Fall 2008</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, December 2, 2008	John H. Schwarz (Caltech)	Superconformal Chern--Simons Theories
Tuesday, November 18, 2008	Christopher Lee (Berkeley)	Probing the Structure of Jets: Factorization and Resummation of Event Shape Distributions
Tuesday, November 11, 2008	Diego Rodriguez-Gomez (Princeton)	Towards M2 branes probing generic toric singularities
Monday, November 10, 2008	Matthias Wapler (Perimeter Institute)	Applied String Theory: Transport properties of holographic defects
Monday, October 20, 2008	Arnab Kundu (USC)	External Fields and the Dynamics of Flavours in Holographic Duals of Large N Gauge Theories
Tuesday, October 14, 2008	Konstantin Bobkov (SLAC)	TeV Scale Physics from G2 Compactifications of M-theory
Monday, September 29, 2008	Bartek Czech (UPenn)	Statistics of Black Hole Microstates
Tuesday, September 23, 2008	Johan Alwall (SLAC)	First characterization of excesses at the LHC
Monday, September 15, 2008	Rene Meyer (Max Planck Institute)	Two Uses of Kalb-Ramond fields in AdS/CFT with Flavour
<b>Spring 2008</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Monday, June 9, 2008	Aalok Misra (ICTP)	dS Minimum Without Anti-D3 Branes, Large Volume Axionic Inflation, (Non-Supersymmetric Black Hole Attractors and Swiss-Cheese Calabi Yau's)
Tuesday, June 3, 2008	Esko Keski-Vakkuri (Helsinki)	N-point functions in rolling tachyon background
Monday, June 2, 2008	Alexei Bazavov (Arizona)	Static Quark Correlators in SU(2) Gauge Theory at Finite Temperature
Tuesday, May 27, 2008	Sven-Olaf Moch (DESY)	Expectations at LHC from hard QCD
Tuesday, May 20, 2008	Barak Bringoltz (Washington)	Large-N volume reduction in Lattice gauge theory
Monday, May 19, 2008	Norihiro Iizuka (KITP)	A Matrix Model for Black Hole Thermalization
Tuesday, May 13, 2008	Alexander Velytsky (Chicago)	Entanglement entropy in d+1 SU(N) gauge theory
Monday, May 12, 2008	Serguey Petcov (SISSA)	Neutrino Mixing, Dirac and Majorana Leptonic CP-Violation and Leptogenesis
Monday, May 5, 2008	Bob Finkelstein (UCLA)	Extension of the SL <sub>q</sub> (2) Knot Model Beyond Electroweak.
Tuesday, April 29, 2008	Matthew Schwartz (Johns Hopkins)	The World's Best Extraction of $\alpha_s$ from LEP Data and Some Collider Physics Implications
Monday, April 28, 2008	Gouranga C Nayak (University of Illinois)	Shift Theorem and Schwinger Mechanism in the Presence of Arbitrary Time Dependent Electric Field
Tuesday, April 22, 2008	Hiroataka Sugawara (Japanese Society Promotion of Science)	Space- Time Duality and Vacuum Energy
Monday, April 21, 2008	Michael Czakon (Wuerzburg)	Top Quarks at the LHC
Monday, April 14, 2008	Radovan Dermisek (IAS)	Natural Electroweak Symmetry Breaking, LEP puzzle and a light Higgs at Bfactories
Tuesday, April 8, 2008	Rouzbeh Allahverdi (New Mexico)	MSSM inflation, WMAP and LHC

Monday, April 7, 2008	Sergei Dubovsky (Harvard)	The Accelerating Universe: Landscape or Modified Gravity?
Monday, March 31, 2008	Michele Papucci (IAS)	TBA
<b>Winter 2008</b>		
Thursday, March 13, 2008	Philip Mannheim (Connecticut)	Conformal Gravity Challenges String Theory
Tuesday, March 11, 2008	Chris Fronsdal (UCLA)	An Action Principle for Thermodynamics: Heat and Gravity
Monday, March 10, 2008	Kostas Skenderis (Amsterdam)	The fuzzball proposal for black holes
Tuesday, March 4, 2008	Sean Carroll (Caltech)	Rehabilitating the Aether
Monday, March 3, 2008	Larry Yaffe (University of Washington)	Heavy quark dynamics in strongly coupled non-Abelian plasma
Wednesday, February 27, 2008	Herb Fried (Brown)	Analytic, Non-Perturbative, Almost Exact QED (Note special day, time)
Tuesday, February 26, 2008	Richard Hill (Fermilab)	The anomalous baryon current and neutrino-photon interactions in the Standard Model
Monday, February 25, 2008	Osamu Seto (Madrid)	Right-handed sneutrino dark matter in an extended MSSM
Tuesday, February 19, 2008	Terry Tomboulis (UCLA)	From short to long scales and confinement in non-abelian gauge theory
Wednesday, February 13, 2008	Dan Freedman (MIT)	Fun with Tree Amplitudes: N=4 and N=8
Tuesday, February 12, 2008	Diego Trancanelli (Santa Barbara)	On supersymmetric Wilson loops
Monday, February 11, 2008	Sean Hartnoll (KITP)	Tabletop AdS/CFT: From Black Holes to Superconductors
Tuesday, January 29, 2008	Juan Garcia-Bellido (Madrid)	Signatures from reheating after inflation: gravitational waves and primordial magnetic fields
Monday, January 28, 2008	Mikhail Voloshin (Minnesota)	Unusual peaks near the open charm threshold
Tuesday, January 22, 2008	Christof Wetterich (Heidelberg)	Dark energy with growing neutrino mass
Friday, January 11, 2008	Mikhail Shifman (Minnesota)	Non-Abelian Strings in Supersymmetric QCD
Monday, January 7, 2008	Fernando Febres Cordero (UCLA)	Weak Boson Production Associated to Heavy Quark Jet Pairs at Hadron Colliders
<b>Fall 2007</b>		
<b>Date</b>	<b>Speaker</b>	<b>Talk Title</b>
Tuesday, December 4, 2007	Jason Kumar (Irvine)	Intersecting Brane Models and Phenomenology
Monday, December 3, 2007	Gabriele Veneziano (CERN)	Transplanckian Superstring Collisions II: Towards a Quantum Description of Critical Collapse
Tuesday, November 27, 2007	Dan Boyanovsky (Pittsburgh)	Dynamics of sterile neutrinos: WDM candidates?
Monday, November 19, 2007	Oscar Varela (Imperial)	AdS spacetimes and Kaluza-Klein consistency
Thursday, November 15, 2007	Niklas Beisert (Max-Planck-Institut)	The World-Sheet S-Matrix of Planar N=4 Gauge Theory
Tuesday, November 13, 2007	Gabriele Veneziano (CERN)	Transplanckian Superstring Collisions I: Generalized Eikonal and String-size Effects
Tuesday, November 6, 2007	Finn Larsen (Michigan)	Resolution of Gravitational Singularities
Monday, November 5, 2007	Umut Gursoy (Ecole Polytechnique)	Exploring holographic approaches to QCD

Tuesday, October 30, 2007	Andy O'Bannon (Washington)	Metallic AdS/CFT
Tuesday, October 23, 2007	Vasilis Niarchos (Ecole Polytechnique)	The Many Phases of Higher Dimensional Black Holes
Monday, October 22, 2007	Sergio Ferrara (CERN and UCLA)	Non-BPS Attractors in Diverse Dimensions
Tuesday, October 16, 2007	Eric D'Hoker (UCLA)	Exact half-BPS solutions to Type IIB supergravity
Monday, October 15, 2007	Mu-Chun Chen (Irvine)	Tri-bimaximal Neutrino Mixing and Quark CKM Matrix from Finite Group (d)T
Monday, October 8, 2007	Veselin Filev (USC)	Large N gauge theory with quarks in an external magnetic field
Monday, October 1, 2007	Richard Lebed (ASU)	Baryons and large Nc in happy resonance

### Spring 2007

Date	Speaker	Talk Title
Monday, June 4, 2007	Don Marolf (UCSB)	A global view of quantum de Sitter space
Wednesday, May 30, 2007	L Fernando Alday (Utrecht)	Gluon scattering amplitudes at strong coupling
Tuesday, May 29, 2007	Norihiro Iizuka (KITP)	Attractors and Spinning strings
Tuesday, May 22, 2007	Sergio Ferrara (UCLA)	N=2, 1 SUGRA Black-Hole attractors: Magic models and pure spinors
Thursday, May 17, 2007	Michael Graesser (Rutgers U.)	Conformal field theories and mush at the LHC
Tuesday, May 15, 2007	Kirill Melnikov (Hawaii)	Physics at the LHC: from Standard Model to new discoveries
Monday, May 14, 2007	Michael Ramsey-Musolf (Caltech)	Baryogenesis, electric dipole moments and singlet Higgs phenomenology
Tuesday, May 8, 2007	Sergio Palomares (Durham)	Redshift-integrated resonance dips in the cosmic neutrino spectrum
Tuesday, April 24, 2007	Emery Sokatchev ( )	Twistors, Harmonics, and Off-Shell Supersymmetry
Monday, April 23, 2007	Oliver Rosten ( )	Invariants of the Generalized Polchinski Equation
Tuesday, April 17, 2007	Chris Dawson (Riken-BNL)	The Kaon B-parameter from lattice QCD
Tuesday, April 10, 2007	Ruth Britto (Amsterdam U.)	Constructing QCD scattering amplitudes
Monday, April 9, 2007	Robert Finkelstein (UCLA)	The quantum groups and standard electroweak (A field theory of knotted solitons)
Tuesday, April 3, 2007	Bo Feng (Imperial College)	Unitarity reduction for one-loop amplitudes
Monday, April 2, 2007	Ian Low (UCI)	Probing new physics with the Higgs boson at the LHC
Winter 2007		
Tuesday, March 20, 2007	Reinhold Ruckl (Wurzburg U.)	Lepton flavor violation, leptogenesis and collider searches
Wednesday, March 14, 2007	Kirill Melnikov (Hawaii)	Perturbative QCD for hadron collider physics
Tuesday, March 13, 2007	Harald Fritzsch (Munich)	Fundamental constants in physics and their time dependence
Monday, March 12, 2007	Jos Edelstein (Santiago de Compostela)	A string dual perspective on quark-gluon plasmas of QCD-like theories
Tuesday, March 6, 2007	York Schroder (Bielefeld U.)	Frontiers in perturbative quantum field theory
Tuesday, February 27, 2007	James Osborn (Boston U.)	Localization transition in QCD at nonzero temperature

Wednesday, February 21, 2007	Ruikiro Kitano (SLAC)	A new model of Higgs bosons
Tuesday, February 20, 2007	Alexey Smirnov (ICTP)	Neutrino oscillograms of the Earth
Tuesday, February 13, 2007	Stan Brodsky (SLAC)	Optimal renormalization scale and schemes for QCD
Monday, February 12, 2007	Kazuhiro Tobe (MSU)	Light MSSM Higgs boson scenario and its test at hadron colliders
Tuesday, January 30, 2007	Hermman Nicolai ( )	E10: Searching for a fundamental symmetry
Tuesday, January 23, 2007	Michael Graesser (Rutgers)	Right-handed neutrinos and Higgs boson decay
Monday, January 22, 2007	Mike Cornwall (UCLA)	A Conjecture on the QCD Wave Functional
Tuesday, January 16, 2007	Carola Berger (SLAC)	Boostrapping one-loop amplitudes (needles and large haystaCks)

### Fall 2006

Date	Speaker	Talk Title
Tuesday, December 5, 2006	Wu-yen Chuang (Stanford)	Mirror symmetry and topological twisted model in generalized geometry
Monday, December 4, 2006	Christel Smith (UCSD)	Big-bang nucleosynthesis and sterile neutrinos
Tuesday, November 28, 2006	Minxin Huang (University of Wisconsin)	Topological strings on compact Calabi-Yau spaces: modularity and boundary conditions
Monday, November 27, 2006	Federico Urban (University of Ferrara)	Baryogenesis below the TeV scale
Tuesday, November 21, 2006	Vishnu Jejjala (Durham)	Geometry of N=1 Vacua
Monday, November 20, 2006	Ina Sarcevic (Arizona)	Probing the Origin of Neutrino Mass and Neutrino Properties with Supernova Neutrinos
Tuesday, November 14, 2006	Piyush Kumar (University of Michigan)	LHC String Phenomenology
Monday, November 6, 2006	Ivan Kostov (Saclay)	Long strings and chiral non-singlets in Matrix Quantum Mechanics
Tuesday, October 31, 2006	Darren Forde (UCLA)	On-shell recurrence relations and all multiplicity amplitudes in QCD
Monday, October 30, 2006	Ivo Sachs (Munich)	Open-closed string correspondence and D-brane decay in curved space
Tuesday, October 17, 2006	Yutaka Ookouchi (Caltech)	Meta-stable SUSY breaking vacua in geometrically realized gauge theories
Tuesday, October 10, 2006	Carlos E Yaguna (UCLA)	Relaxing the dark matter constraint on supersymmetric models
Monday, October 9, 2006	Mathias Gaberdiel (ETH)	D-branes and matrix factorisations
Tuesday, October 3, 2006	Aninda Sinha (Cambridge)	Small black holes in string theory
Monday, October 2, 2006	Sergei Winitzki ( )	Quantum cosmology and the conditions at birth of the universe
Monday, September 25, 2006	Alexander Velytsky (UCLA)	Deconfinement transition dynamics and thermalization in QGP