

Thursday 13 December 2007



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|-------------|---|---|
| 8:00-8:30 | | |
| 8:30-9:00 | | <i>registration</i> |
| 9:00-9:30 | | |
| 9:30-10:00 | | <i>coffee break</i> |
| 10:00-10:30 | Thom | Znojil <i>PT-symmetric quantum knots</i> |
| 10:30-11:00 | | Meurice <i>Large order, large fields, and finite temperature from lattice QCD at complex coupling</i> |
| 11:00-11:30 | | Wali <i>Clash of Symmetries In A Brane World Picture; SU(5) Gut Scheme with E₆ in the Bulk</i> |
| 11:30-12:00 | | Bergshoeff <i>The Kac-Moody Approach to Supergravity</i> |
| 12:00-12:30 | | |
| 12:30-1:00 | | |
| 1:00-1:30 | | <i>lunch break</i> |
| 1:30-2:00 | | |
| 2:00-2:30 | | |
| 2:30-3:00 | Luca & Don | Ralston <i>un-Quantum Computing</i> |
| 3:00-3:30 | | Colladay <i>Functional Determinant Loop Calculations in Lorentz Violating Theories</i> |
| 3:30-4:00 | | Smilga <i>Higher-derivative higher-dimensional theory as the Theory of Everything</i> |
| 4:00-4:30 | | Nicolai <i>E10 and Unification</i> |
| 4:30-5:00 | | <i>tea break</i> |
| 5:00-5:30 | | Bender <i>The Pais-Uhlenbeck model -- giving up the ghost</i> |
| 5:30-6:00 | Mannheim <i>Conformal Gravity Challenges String Theory</i> | |
| 6:00-6:30 | Neuberger <i>A phase transition in Wilson loops in QCD at infinite number of colors</i> | |
| 6:30-6:45 | | <i>mini-break</i> |
| 6:45-7:30 | | Greenberg <i>The Discovery of Color</i> |
| 7:30-9:00 | | <i>reception</i> |

Friday 14 December 2007



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|-------------|---------------|--|--|
| 8:00-8:30 | Sydney & Ruth | Chauvet-Alducin | <i>Scalar-Tensor Interactions</i> |
| 8:30-9:00 | | Soda | <i>Polarization of Gravitational Waves in String Cosmology</i> |
| 9:00-9:30 | | DeSalvo | <i>Gravitational Wave Detectors</i> |
| 9:30-10:00 | | | <i>coffee break</i> |
| 10:00-10:30 | | Alimi | <i>Dark energy and the "Abnormally Weighting Energy" (AWE) Hypothesis</i> |
| 10:30-11:00 | | Martin | <i>Implications of compressed supersymmetry with stop-mediated annihilation of dark matter</i> |
| 11:00-11:30 | | Sandick | <i>Dark Matter Phenomenology of the GUT-less CMSSM</i> |
| 11:30-12:00 | | Sikivie | <i>Dark matter caustics</i> |
| 12:00-12:30 | | | |
| 12:30-1:00 | | | <i>lunch break</i> |
| 1:00-1:30 | | | |
| 1:30-2:00 | | | |
| 2:00-2:30 | | | |
| 2:30-3:00 | Ruth & Sydney | Moffat | <i>Electroweak Model Without A Higgs Particle</i> |
| 3:00-3:30 | | Zhitnitsky | <i>Dark Antimatter as a Galactic Heater: 511 KeV line and X-rays from the center of the Galaxy</i> |
| 3:30-4:00 | | Reisetter | <i>Status and Future Plans of CDMS</i> |
| 4:00-4:30 | | Cline | <i>Prospects for the Discovery of Dark Matter Particles in 2008—2010</i> |
| 4:30-5:00 | | | <i>tea break</i> |
| 5:00-5:30 | | Ng | <i>Holographic Foam, Dark Energy and Infinite Statistics</i> |
| 5:30-6:00 | | Djorgovski | <i>Dark Energy From Vacuum Fluctuations</i> |
| 6:00-6:30 | | Biswas | <i>Local Void vs Dark Energy: Confrontation with WMAP and Type Ia Supernovae</i> |
| 6:30-7:00 | Casadei | <i>Search for dark matter candidates with ATLAS: the missing transverse energy trigger signature</i> | |

Saturday 15 December 2007



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|-------------|----------------|---------------------|--|
| 8:00-9:00 | Rob & Jaume | Klebanov | <i>Gauge/String Dualities and Their Applications</i> |
| 9:00-9:30 | | Shifman | <i>Highly Excited Mesons, Linear Regge Trajectories and the Pattern of the Chiral Symmetry Realization</i> |
| 9:30-10:00 | | <i>coffee break</i> | |
| 10:00-10:30 | | Polychronakos | <i>Seiberg-Witten invariance of general noncommutative WZW models</i> |
| 10:30-11:00 | | Takayanagi | <i>Entanglement Entropy from AdS/CFT</i> |
| 11:00-11:30 | | Volovich | <i>Multiloop Gluon Amplitudes and AdS/CFT</i> |
| 11:30-12:00 | | Kruczenski | <i>Semi-classical strings as probes of AdS/CFT</i> |
| 12:00-12:30 | | Myers | <i>Holographic spectral functions and diffusion constants for fundamental matter</i> |
| 12:30-1:00 | | | |
| 1:00-1:30 | | <i>lunch break</i> | |
| 1:30-2:00 | | | |
| 2:00-2:30 | | | |
| 2:30-3:00 | Rob & Jaume | Kadota | <i>Cosmology in warped extra dimensions</i> |
| 3:00-3:30 | | Bouchard | <i>Remodeling the B-model: implications for large N duality</i> |
| 3:30-4:00 | | Gomis | <i>Nonlocal Operators in Gauge Theory and Holography</i> |
| 4:00-4:30 | | Verlinde | <i>Holographic Renormalization of Transport Coefficients</i> |
| 4:30-5:00 | | <i>tea break</i> | |
| 5:00-5:30 | | Spradlin | <i>Dressing Giant Strings</i> |
| 5:30-6:00 | | Berglund | <i>dS vacua in Large Volume Flux Compactifications</i> |
| 6:00-7:00 | | Maldacena | <i>A short overview of the gauge/gravity duality and some remarks on jet physics at strong coupling</i> |
| 7:00-7:15 | | <i>mini-break</i> | |
| 7:15-8:00 | | <i>cocktails</i> | |
| 8:00-10:00 | <i>banquet</i> | | |

Sunday 16 December 2007



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|-------------|-------------|---|--|
| 8:00-9:00 | Jaume & Rob | Gubser | <i>A few comparisons between string theory and heavy-ion physics</i> |
| 9:00-9:30 | | Tseytlin | <i>Towards understanding superstring theory in AdS5 x S5</i> |
| 9:30-10:00 | | <i>coffee break</i> | |
| 10:00-10:30 | | Daly | <i>Dark Energy and the Acceleration of the Universe</i> |
| 10:30-11:00 | | Paes | <i>Leptonic color models from AdS/CFT</i> |
| 11:00-11:30 | | Roiban | <i>The dilatation operator of N=4 SYM at 4 loops and beyond</i> |
| 11:30-12:30 | | Polyakov | <i>Successes and failures of Gauge/String duality</i> |
| 12:30-1:00 | Paul & Tom | | |
| 1:00-1:30 | | <i>lunch break</i> | |
| 1:30-2:00 | | | |
| 2:00-2:30 | | | |
| 2:30-3:00 | | Stiffler | <i>K-string Tension corrections via AdS/CFT correspondence</i> |
| 3:00-3:30 | | Hsu, S | <i>Curved space, monsters and black hole entropy</i> |
| 3:30-4:00 | Buniy | <i>Is entanglement entropy proportional to area?</i> | |
| 4:00-4:30 | Duff | <i>Black holes, qubits and Jordan algebras</i> | |
| 4:30-5:00 | | <i>tea break</i> | |
| 5:00-5:30 | Goldberg | <i>Jet signals for low mass strings at the LHC</i> | |
| 5:30-6:00 | Stelle | <i>M-theory on Calabi-Yau 5-folds</i> | |
| 6:00-6:30 | Calmet | <i>TeV Quantum Gravity in 4-Dimensions?</i> | |
| 6:30-7:00 | Minic | <i>On the spectrum of Yang-Mills theory in 3 and 4d</i> | |
| 7:00-7:30 | Frampton | <i>Relations between standard model parameters from T' symmetry</i> | |

Monday 17 December 2007



| | | | |
|-------------|-------------|--------------------|---|
| 8:00-8:30 | Ina & Steve | Slaughter | <i>The Delta-Nucleon Electromagnetic Interaction and Wigner Rotations</i> |
| 8:30-9:00 | | Qiao | <i>Photon-Photon Diffractive Interaction at High Energies</i> |
| 9:00-9:30 | | Fazely | <i>Eta and pi0 decay to two neutrinos</i> |
| 9:30-10:00 | | | <i>coffee break</i> |
| 10:00-10:30 | | Hill | <i>Anomaly mediated neutrinodynamics</i> |
| 10:30-11:00 | | Mintz | <i>Recent Results for Hyperon Production in Antineutrino Proton Scattering</i> |
| 11:00-11:30 | | Mocioiu | <i>Neutrino lessons for particle physics and astrophysics</i> |
| 11:30-12:00 | | Sarcevic | <i>Cosmogenic Neutrinos and Quasi-stable Supersymmetric Particle Production</i> |
| 12:00-12:30 | | | |
| 12:30-1:00 | | | |
| 1:00-1:30 | | <i>lunch break</i> | |
| 1:30-2:00 | | | |
| 2:00-2:30 | | | |
| 2:30-3:00 | Steve & Ina | Hsu, L | <i>MINOS Update</i> |
| 3:00-3:30 | | Olivas | <i>Physics Beyond the Standard Model with IceCube</i> |
| 3:30-4:00 | | Marotta | <i>First Events from the CNGS Neutrino Beam Detected in the emulsion target of the OPERA Experiment</i> |
| 4:00-4:30 | | Bodek | <i>MINERvA: A low-energy Neutrino-Nucleus Scattering Experiment</i> |
| 4:30-5:00 | | | <i>tea break</i> |
| 5:00-5:30 | | Marfatia | <i>Which long-baseline neutrino experiment?</i> |
| 5:30-6:00 | | Kobakhidze | <i>Scale invariance and the electroweak symmetry breaking</i> |
| 6:00-6:15 | | | <i>mini-break</i> |
| 6:15-7:30 | | Englert | <i>Spontaneous symmetry breaking and the quest for unified laws of Nature</i> |
| 7:30-9:00 | | | <i>reception</i> |

Tuesday 18 December 2007



| | | | |
|-------------|------------------|--------------------|--|
| 8:00-8:30 | Guenakh & Arnold | Kass | <i>Update on BaBar Searches for Lepton Flavor Violation Using Tau Decays</i> |
| 8:30-9:00 | | Swain | <i>BaBar Search for New Physics - Penguins</i> |
| 9:00-9:30 | | Neuberger | <i>A phase transition in Wilson loops in QCD at infinite number of colors</i> |
| 9:30-10:00 | | | <i>coffee break</i> |
| 10:00-10:30 | | Stanco | <i>From HERA studies to LHC: an experimental view</i> |
| 10:30-11:00 | | Petersen | <i>Evidence for Charm Mixing</i> |
| 11:00-11:30 | | Konigsberg | <i>Run 2 highlights and prospects from the CDF experiment</i> |
| 11:30-12:00 | | Mitselmakher | <i>First Physics with CMS detector at LHC</i> |
| 12:00-12:30 | | | |
| 12:30-1:00 | | | |
| 1:00-1:30 | | <i>lunch break</i> | |
| 1:30-2:00 | | | |
| 2:00-2:30 | | | |
| 2:30-3:00 | | | |
| 3:00-3:30 | Don & Tom | Burdyuzha | <i>Space Vacuum and its Synthetic Model</i> |
| 3:30-4:00 | | Kanno | <i>Emergence of Fluctuations from a Tachyonic Big Bang</i> |
| 4:00-4:30 | | LeClair | <i>Super-current algebras for disordered Dirac fermions</i> |
| 4:30-5:00 | | | <i>tea break</i> |
| 5:00-5:30 | | Kouroumalou | <i>On the radion mediation of the Supersymmetry breaking in $N=2, D=5$ Supergravity Orbifolds</i> |
| 5:30-6:00 | | Hwang | <i>String theory and non-compact spaces</i> |
| 6:00-6:30 | | Ruiz Ruiz | <i>Quantization of the open string on exact plane waves and non-commutative wave fronts</i> |
| 6:30-7:00 | | Truong | <i>Superfield calculation of loop contribution</i> |

Alphabetized list of speakers

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|----|-----------------|--|
| 1 | Alimi | <i>Dark energy and the "Abnormally Weighting Energy" (AWE) Hypothesis</i> |
| 2 | Bender | <i>The Pais-Uhlenbeck model -- giving up the ghost</i> |
| 3 | Berglund | <i>dS vacua in Large Volume Flux Compactifications</i> |
| 4 | Bergshoeff | <i>The Kac-Moody Approach to Supergravity</i> |
| 5 | Biswas | <i>Singularity Resolution in Non-local Theories of Gravity</i> |
| 6 | Bodek | <i>MINERvA: A low-energy Neutrino-Nucleus Scattering Experiment</i> |
| 7 | Bouchard | <i>Remodeling the B-model: implications for large N duality</i> |
| 8 | Buniy | <i>Is entanglement entropy proportional to area?</i> |
| 9 | Burdyuzha | <i>Space Vacuum and its Synthetic Model</i> |
| 10 | Calmet | <i>TeV Quantum Gravity in 4-Dimensions?</i> |
| 11 | Casadei | <i>Search for dark matter candidates with ATLAS: the missing transverse energy trigger signature</i> |
| 12 | Chauvet-Alducin | <i>Scalar-Tensor Interactions</i> |
| 13 | Cline | <i>Prospects for the Discovery of Dark Matter Particles in 2008—2010</i> |
| 14 | Colladay | <i>Functional Determinant Loop Calculations in Lorentz Violating Theories</i> |
| 15 | Daly | <i>Dark Energy and the Acceleration of the Universe</i> |
| 16 | DeSalvo | <i>Gravitational Wave Detectors</i> |
| 17 | Djorgovski | <i>Dark Energy From Vacuum Fluctuations</i> |
| 18 | Duff | <i>Black holes, qubits and Jordan algebras</i> |
| 19 | Englert | <i>Spontaneous symmetry breaking and the quest for unified laws of Nature</i> |
| 20 | Fazely | <i>Eta and π^0 decay to two neutrinos</i> |
| 21 | Frampton | <i>Relations between standard model parameters from T' symmetry</i> |
| 22 | Goldberg | <i>Jet signals for low mass strings at the LHC</i> |
| 23 | Gomis | <i>Nonlocal Operators in Gauge Theory and Holography</i> |
| 24 | Greenberg | <i>The Discovery of Color</i> |
| 25 | Gubser | <i>A few comparisons between string theory and heavy-ion physics</i> |
| 26 | Gunaydin | <i>U-Duality, Extremal Black Holes and Spectrum Generating Symmetries</i> |
| 27 | Hill | <i>Anomaly mediated neutrino dynamics</i> |
| 28 | Hsu, L | <i>MINOS Update</i> |
| 29 | Hsu, S | <i>Curved space, monsters and black hole entropy</i> |
| 30 | Hwang | <i>String theory and non-compact spaces</i> |
| 31 | Kadota | <i>Cosmology in warped extra dimensions</i> |
| 32 | Kanno | <i>Emergence of Fluctuations from a Tachyonic Big Bang</i> |
| 33 | Kass | <i>Update on BaBar Searches for Lepton Flavor Violation Using Tau Decays</i> |
| 34 | Klebanov | <i>Gauge/String Dualities and Their Applications</i> |
| 35 | Kobakhidze | <i>Scale invariance and the electroweak symmetry breaking</i> |

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| 36 | Konigsberg | <i>Run 2 highlights and prospects from the CDF experiment</i> |
| 37 | Kouroumalou | <i>On the radion mediation of the Supersymmetry breaking in $N=2, D=5$ Supergravity Orbifolds</i> |
| 38 | Kruczenski | <i>Semi-classical strings as probes of AdS/CFT</i> |
| 39 | LeClair | <i>Super-current algebras for disordered Dirac fermions</i> |
| 40 | Maldacena | <i>TBA</i> |
| 41 | Mannheim | <i>Conformal Gravity Challenges String Theory</i> |
| 42 | Marfatia | <i>TBA about neutrinos</i> |
| 43 | Marotta | <i>First Events from the CNGS Neutrino Beam Detected in the emulsion target of the OPERA Experiment</i> |
| 44 | Martin | <i>Implications of compressed supersymmetry with stop-mediated annihilation of dark matter</i> |
| 45 | Meurice | <i>Large order, large fields and finite temperature from lattice QCD at complex coupling</i> |
| 46 | Minic | <i>On the spectrum of Yang-Mills theory in 3 and 4d</i> |
| 47 | Mintz | <i>Recent Results for Hyperon Production in Antineutrino Proton Scattering</i> |
| 48 | Mitselmakher | <i>First Physics with CMS detector at LHC</i> |
| 49 | Mocioiu | <i>Neutrino lessons for particle physics and astrophysics</i> |
| 50 | Moffat | <i>Electroweak Model Without A Higgs Particle</i> |
| 51 | Myers | <i>Holographic spectral functions and diffusion constants for fundamental matter</i> |
| 52 | Neuberger | <i>A phase transitions in Wilson loops in QCD at infinite number of colors</i> |
| 53 | Ng | <i>Holographic Foam, Dark Energy and Infinite Statistics</i> |
| 54 | Nicolai | <i>E10 and Unification</i> |
| 55 | Olivas | <i>Physics Beyond the Standard Model with IceCube</i> |
| 56 | Paes | <i>Leptonic color models from AdS/CFT</i> |
| 57 | Petersen | <i>Evidence for Charm Mixing</i> |
| 58 | Polyakov | <i>Successes and failures of Gauge/String duality</i> |
| 59 | Polychronakos | <i>Seiberg-Witten invariance of general noncommutative WZW models</i> |
| 60 | Qiao | <i>Photon-Photon Diffractive Interaction at High Energies</i> |
| 61 | Ralston | <i>un-Quantum Computing</i> |
| 62 | Reisetter | <i>Status and Future Plans of CDMS</i> |
| 63 | Roiban | <i>The dilatation operator of $N=4$ SYM at 4loops and beyond</i> |
| 64 | Ruiz | <i>Quantization of strings and non-commutative structure of non-flat spacetime</i> |
| 65 | Sandick | <i>Dark Matter Phenomenology of the GUT-less CMSSM</i> |
| 66 | Sarcevic | <i>Cosmogenic Neutrinos and Quasi-stable Supersymmetric Particle Production</i> |
| 67 | Shifman | <i>Highly Excited Mesons, Linear Regge Trajectories and the Pattern of the Chiral Symmetry Realization</i> |
| 68 | Sikivie | <i>Dark matter caustics</i> |
| 69 | Slaughter | <i>The Delta-Nucleon Electromagnetic Interaction and Wigner Rotations</i> |
| 70 | Smilga | <i>Higher-derivative higher-dimensional theory as the Theory of Everything</i> |
| 71 | Soda | <i>Polarization of Gravitational Waves in String Cosmology</i> |
| 72 | Spradlin | <i>Dressing Giant Strings</i> |

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| 73 | Stanco | <i>From HERA studies to LHC: an experimental view</i> |
| 74 | Stelle | <i>M-theory on Calabi-Yau 5-folds</i> |
| 75 | Stiffler | <i>K-string Tension corrections via AdS/CFT correspondence</i> |
| 76 | Swain | <i>BaBar Search for New Physics - Penguins</i> |
| 77 | Takayanagi | <i>Entanglement Entropy from AdS/CFT</i> |
| 78 | Truong | <i>Superfield calculation of loop contribution</i> |
| 79 | Tseytlin | <i>Towards understanding superstring theory in AdS5 x S5</i> |
| 80 | Verlinde | <i>Holographic Renormalization of Transport Coefficients</i> |
| 81 | Volovich | <i>Multiloop Gluon Amplitudes and AdS/CFT</i> |
| 82 | Wali | <i>Clash of Symmetries In A Brane World Picture; SU(5) Gut Scheme with E₆ in the Bulk</i> |
| 83 | Zhitnitsky | <i>Dark Antimatter as a Galactic Heater: 511 KeV line and X-rays from the center of the Galaxy</i> |
| 84 | Znojil | <i>PT-symmetric quantum knots</i> |