

2004 SLAC Summer Institute: Natures Greatest Puzzles

| | <i>Monday August 2</i> | <i>Tuesday August 3</i> | <i>Wednesday August 4</i> | <i>Thursday August 5</i> | <i>Friday August 6</i> | <i>Monday August 9</i> | <i>Tuesday August 10</i> | <i>Wednesday August 11</i> | <i>Thursday August 12</i> | <i>Friday August 13</i> |
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| Chairman | J. Hewett | C. Prescott | J. Jaros | T. Kamae | J. Hewett | C. Prescott | J. Jaros | T. Kamae | J. Hewett | C. Prescott |
| Top Ten Questions | Where and what is the Dark Matter? | How Massive are Neutrinos? | What are the implications of Neutrino Mass? | What are the Origins of Mass? | Why is there a spectrum of Fermion Masses? | Why is Gravity <u>So</u> Weak? | Is Nature Supersymmetric? | Why is the Universe made of Matter and not Anti-Matter? | Where do Ultra High Energy Cosmic Rays Come? | Did the Universe Inflate at Birth? |
| 9: 00 - 10:00AM | Welcome J. Dorfan Nature's Greatest Puzzles C. Quigg | Theory Basics B. Kayser | Theory Basics B. Kayser | Higgs Basics M. Peskin | Higgs Basics M. Peskin | Solving the Hierarchy Problem J. Lykken | SUSY Basics X. Tata | How do we know Antimatter is Absent? P. Coppi | Ultra High Energy Cosmic Rays T. Stanev | Inflation Basics M. Kamionkowski |
| 10:00 - 10:30 | COFFEE BREAK | | | | | | | | | |
| 10:30 - 11:30 | Evidence for Dark Matter R. Gaitskill | Experimental Neutrino Oscillations G. Gratta | Experimental Neutrino Oscillations G. Gratta | Precision EW Measurements and the Higgs Mass B. Marciano | Precision EW Measurements and the Higgs Mass B. Marciano | Experimental Signatures of Extra Dimensions T. Rizzo | SUSY Basics X. Tata | Lepto and Baryogenesis M. Trodden | Cosmic Acceleration Mechanisms R. Blandford | Inflation Basics M.Kamionkowski |
| 11:30 - 11:45 | COFFEE BREAK | | | | | | | | | |
| 11:45 - 12:45 | Dark Matter Candidates T. Baltz | Neutrinos in Cosmology T. Weiler | Neutrinos in Astrophysics G. Fuller | The Origin of Mass in QCD S. Chivukula | Neutrino Mass R. Mohapatra | Gravity and Strings S. Giddings | SUSY and Cosmology K. Matchev | Can BSM CP Violation Generate the Baryon Asymmetry C. Wagner | Understanding the Atmosphere as a Calorimeter for UHE Cosmic Rays G. Schatz | Inflation and String Theory A. Linde |
| 12:45 - 2:00 | LUNCH | | | | | | | | | |
| <i>Topical Conference</i> | 2:00 - 2:30 Results from CDMS B. Cabrera | 2:00 - 2:45 Recent Results from Super K D. Casper | 2:00 - 3:00 Results from SNO D. Waller | 2:00 - 2:30 Top and W Masses at the Tevatron S. Miller | 2:00 - 2:30 Properties of the Top Quark C. Clement | 2:00 - 2:30 Tests of Short Distance Gravity S. Smullin | 2:00 - 2:30 Direct Accelerator Searches for SUSY S. Wang | 2:00 - 3:00 CP Violation in B Meson Decays L. Lanceri | 2:00 - 2:45 Results from Auger R. Cintra Shellard | 2:00 - 2:45 Road Map to the Future F. Gilman |
| | 2:30 - 3:00 Searching for the Axion L. Rosenberg | 2:45 - 3:15 Recent Results from K2K M. Yokayama | 3:00 - 3:30 Results from Amanda II S. Barwick | 2:30 - 3:00 Higgs Searches at the Tevatron S. Snyder | 2:30 - 3:15 Higgs at LC and LHC A. De Roeck | 2:30 - 3:15 General Relativity with Double Pulsars M. Kramer | 2:30 - 3:00 LHC/LC and SUSY K. Desch | 3:00 - 3:45 Search for Cosmological Antimatter R. Streitmatter | 2:45 - 3:15 Results from Hess W. Hofmann | 2:45 - 3:45 The Last Word on Nature's Greatest Puzzles N. Arkani-Hamed |
| | 3:00 - 3:30 Weak Lensing: A Probe of Dark Matter and Dark Energy A. Refregier | 3:15 - 3:45 Neutrinoless Double Beta Decay S. Elliott | 3:30 - 4:00 Neutrino Physics at MiniBoone S. Zeller | 3:30 - 12:00 AM <i>Lick Observatory Tour</i> | 3:15 - 3:45 Final Results from E158 Y. Kolomensky | 3:15 - 3:45 Searches for Extra Dimensions at the Tevatron G. Landsberg | 3:00 - 3:30 Searching for SUSY in B Decays Y. Okada | 3:30 - 4:00 Final (or Recent) Muon g-2 Results P. Shagin | 3:15 - 3:45 Radio Detection of UHE Cosmic Rays and Neutrinos P. Gorham | |
| 4:00 - 6:00PM | Discussion Session | TOUR | Discussion Session | Discussion Session | | Discussion Session | TOUR | Discussion Session | Discussion Session | |
| 6:00PM | <i>Welcome Reception</i> | <i>Dinner</i> | <i>Poster Session</i> | <i>Social Hour</i> | | <i>Dinner</i> | <i>Poster Session</i> | <i>Social Hour</i> | <i>Dinner</i> | |