Monday, Mar 28, 2022

Session: Neutrino Data, Chair: Andre de Gouvea (Northwestern)

8:50am Lars Bildsten (KITP)  Welcome[Video][CC]
9:00am Callum Wilkinson (LBNL)  Results from the T2K experiment[Slides][Video][CC]
9:45am Zoya Vallari (Caltech)  Results from the NOvA experiment[Slides][Video][CC]
10:30am  Morning break

11:00am Ornella Palamara (Fermilab)  Short-Baseline Review (accelerators)[Slides][Video][CC]
11:45am Chair: David Caratelli (UC Santa Barbara)  Panel: Status of Existing Neutrino Experiments (Wilkinson, Vallari, Palamara, Kopp) [Video][CC]

12:30pm  Lunch break

Session: Upcoming experiments, Chair: Ornella Palamara (Fermilab)

2:00pm Leigh Whitehead (Cambridge)  Status of the DUNE experiment[Slides][Video][CC]
2:45pm Michael Smy (UCI)  Status of the Hyper-K experiment[Slides][Video][CC]
3:30pm  Afternoon break

4:00pm Andre deGouvea (Northwestern)  Status of Neutrino Oscillation Experiments[Slides][Video][CC]
4:45pm Chair: Ines Gil Botella (CIEMAT)  Panel: Future Neutrino Experiments (de Gouvea, Smy, Whitehead)[Video][CC]
5:30pm  Cocktail Reception

6:00pm  Dinner

8:00pm  Shuttle to BWSCI

Tuesday, Mar 29, 2022

Session: Neutrino Cross Sections, Chair: Noemi Rocco (Fermilab)

9:00am Andre Walker Loud (LBNL)  Introduction to Lattice & Neutrino Cross Sections[Slides][Video][CC]
9:45am Sara Collins (U Regensburg)  The PCAC puzzle for the nucleon axial and pseudoscalar form factors[Slides][Video][CC]
10:30am  Morning break

11:00am Konstantin Ottnad (U Mainz)  Isovector Axial Vector Form Factors of the Nucleon from Lattice QCD with improved Wilson fermions[Slides][Video][CC]
11:45am Emilie Passemar (Indiana)  Axial Form Factors and Neutrino-Nucleon Data[Video][CC]

12:30pm  Lunch break

Session: Lattice-Neutrino Connections, Chair: Emilie Passemar (Indiana)

2:00pm David Caratelli (UCSB)  MiniBoone and Cross Sections[Slides][Video][CC]
2:45pm Artur Ankowski (SLAC)  Neutrino Cross Sections and Electron Scattering[Slides][Video][CC]
3:30pm  Afternoon break
Wednesday, Mar 30, 2022

Session: BSM Neutrino Searches, Chair: Graciela Gelmini (UCLA)

9:00am Karsten Heeger (Yale)  Reactor Experiments and Short-Baseline Searches[Slides][Video][CC]
9:45am Joachim Kopp (Mainz) Neutrino BSM Phenomenology[Slides][Video][CC]
10:30am  Morning break

11:00am Matheus Hostert (Perimeter Inst.) Neutrino Theory and BSM Searches[Slides][Video][CC]
11:45am Kaladi Babu (Oklahoma State) Neutrino Model Building[Slides][Video][CC]
12:30pm  Lunch break

Session: BSM Neutrino Searches, Chair: Kaladi Babu (Oklahoma State)

2:00pm Graciela Gelmini (UCLA) Uncertainties of cosmological/astrophysical limits on sterile neutrinos[Video][CC]
2:45pm Kevork Abazajian (UCI) Dark Matter and other Hidden Treasures in the Neutrino Sector[Slides][Video][CC]
3:30pm  Afternoon break

4:00pm Ivan Jesus Martinez Soler (Harvard) BSM Searches and Supernovae[Slides][Video][CC]
4:45pm Chair: Joachim Kopp (Mainz) PANEL: Status and prospects of BSM physics searches (Abazajian, Babu, Gelmini, Hostert, Martinez-Soler)[Video][CC]

5:30pm  Cocktail reception

6:00pm  Dinner

8:00pm  Shuttle to BWSCI

Thursday, Mar 31, 2022

Session Astro/Cosmo Neutrino Connections, Chair: Artur Ankowski (SLAC)

9:00am George Fuller (UCSD) Overview of Supernova Neutrinos[Video]
9:45am Anna Suliga (Berkeley) Supernovae, Oscillations, and Sterile Neutrinos[Slides][Video]
10:30am  Morning break

11:00am Amol Patwardhan (SLAC) Nu-P Nucleosynthesis in the supernova hot bubble[Slides][Video]
11:45am Gail McLaughlin (NC State) A Survey of Nucleosynthesis and Neutrinos[Slides][Video]
12:30pm  Lunch break

Session Astro/Cosmo Neutrino Connections, Chair: Gail McLaughlin (NC State)

2:00pm Ibrahim Safa (Harvard) High-Energy Neutrinos: Backgrounds and Measurements[Slides][Video]
2:45pm Ali Kheirandish (Penn State) On the Origins of High-Energy Neutrinos[Slides][Video]
3:30pm Afternoon break

4:00pm Chair: Amol Patwardhan (SLAC)  PANEL: Neutrinos and Astrophysics Open Questions (Kheirandish, Safa, Fuller, Suliga, Balantekin)[Video]

4:45pm Chair: Alexander Friedland (SLAC)  PANEL: Broad questions in neutrino Physics (McLaughlin, de Gouvea, Ankowski, Hostert, Gill Botella)[Video]

5:30pm CONFERENCE END SHUTTLE TO BWSCI *Also available to SB Airport and SB Airbus, Goleta location.(See Registration Desk BEFORE THURSDAY to sign up.)