

Topics in Cosmic Neutrino Physics

Wednesday, 9 October 2019

Plenary - One West (Wilson Hall) (08:50 - 10:20)

-Conveners: Kevin Kelly

| time | [id] title | presenter |
|-------|---------------------------|------------------------|
| 08:50 | [25] Welcome Remarks | KRNJAIC, Gordan |
| 09:00 | [26] Neutrino Theory | Prof. DE GOUVEA, Andre |
| 09:45 | [27] Neutrinos in the CMB | MEYERS, Joel |

Plenary - One West (Wilson Hall) (11:00 - 12:10)

-Conveners: Martina Gerbino

| time | [id] title | presenter |
|-------|---|----------------------|
| 11:00 | [29] BBN and Neutrino Decoupling | Prof. FULLER, George |
| 11:35 | [28] Neutrinos in Large Scale Structure | MCDONALD, Patrick |

Plenary - One West (Wilson Hall) (13:30 - 15:30)

-Conveners: Yuhsin Tsai

| time | [id] title | presenter |
|-------|---|----------------------|
| 13:30 | [30] Uncertainties in the Relic Neutrino Background as a Probe of the Nuclear Equation of State | Prof. MATHEWS, Grant |
| 13:50 | [31] Gravitational Lensing of the Cosmic Neutrino Background | LIN, Yao-Yu |
| 14:10 | [32] Neutrino mass and gravitational waves | POPOV, Oleg |
| 14:30 | [33] Prospects for Neutrino Physics with SPT-3G and Future CMB Surveys | Mr ANDERSON, Adam |
| 14:50 | [34] Fast oscillation waves in dense neutrino gases | DUAN, Huaiyu |
| 15:10 | [35] Neutrino Portals to Dark Matter | ROSAURO, Salvador |

Thursday, 10 October 2019

Plenary - One West (Wilson Hall) (09:00 - 10:10)

-Conveners: Seyda Ipek

| time | [id] title | presenter |
|-------|-------------------------------|--------------------------|
| 09:00 | [36] Neutrino Mixing Overview | Dr SUTER, Louise |
| 09:35 | [37] Neutrino Mass Overview | Prof. DOLINSKI, Michelle |

Plenary - One West (Wilson Hall) (10:40 - 11:50)

-Conveners: Alexander Friedland

| time | [id] title | presenter |
|-------|---|--------------------------|
| 10:40 | [38] Sterile Neutrino Theory Overview | Mr SHOEMAKER, Ian |
| 11:15 | [39] Detecting Cosmological Relic Neutrinos | Prof. TULLY, Christopher |

Plenary - One West (Wilson Hall) (13:10 - 15:25)

-Conveners: Nikita Blinov

| time | [id] title | presenter |
|-------|---|-----------------------|
| 13:10 | [40] CP Violation Overview | VAHLE, Patricia |
| 13:45 | [41] Large Scale Structure Signals of Neutrino Decay | TSAI, Yuhsin |
| 14:05 | [42] Free-Streaming Neutrinos in the CMB and LSS | Dr WALLISCH, Benjamin |
| 14:25 | [43] Target Neutrino Mass Precision for Determining the Neutrino Hierarchy | Ms MAHONY, Constance |
| 14:45 | [44] W-boson and trident production for high-energy neutrinos: cross sections, detection signatures, and implications | Mr ZHOU, Bei |
| 15:05 | [61] Complementarity between cosmology and lab searches of neutrino properties | GERBINO, Martina |

Plenary: Plenary - One West (Wilson Hall) (15:45 - 18:40)

-Conveners: Yang Gao

| time | [id] title | presenter |
|-------|--|---------------------|
| 15:45 | [45] Elastic neutrino-electron scattering within the effective field theory | TOMALAK, Oleksandr |
| 16:05 | [46] Constraining Sterile Neutrino Interpretations of the LSND and MiniBooNE Anomalies with Coherent Neutrino Scattering Experiments | BLANCO, carlos |
| 16:25 | [47] Low Energy Neutrino Astrophysics in Super-Kamiokande | Dr SMY, Michael |
| 16:45 | [48] Dodelson-Widrow mechanism in the presence of neutrino self-interactions | Dr SEN, Manibrata |
| 17:05 | [50] Eigenvalues and Eigenstates of the Many-body Collective Neutrino Oscillation Problem | CERVIA, Michael |
| 17:25 | [49] Entanglement and collective neutrino oscillations | Mr PATWARDHAN, Amol |
| 17:45 | [51] Dark Matter annihilation to neutrinos: New limits and future prospects | SAFA, Ibrahim |

Friday, 11 October 2019

Plenary: Plenary - One West (Wilson Hall) (09:00 - 10:10)

-Conveners: Michelle Dolinski

| time | [id] title | presenter |
|-------|--|---------------------|
| 09:00 | [52] Neutrino Astrophysics Overview, MeV-Scale | LI, Shirley |
| 09:35 | [53] Neutrino Astrophysics Overview, High Energy | Prof. GRANT, Darren |

Plenary - One West (Wilson Hall) (10:50 - 12:00)

-Conveners: Samuel McDermott

| time | [id] title | presenter |
|-------|--|----------------------|
| 10:50 | [54] Supernova Neutrinos | FRIEDLAND, Alexander |
| 11:25 | [55] Sterile Neutrinos Experimental Overview | Mr LITTLEJOHN, Bryce |

Plenary: Plenary - One West (Wilson Hall) (13:00 - 14:40)

-Conveners: Yu-Dai Tsai

| time | [id] title | presenter |
|-------|---|--------------------|
| 13:00 | [56] Observing cosmogenic neutrinos through the Earth | SAFA, Ibrahim |
| 13:20 | [57] Radio Detection of Ultra-High-Energy Neutrinos (mostly) with ANITA | DEACONU, Cosmin |
| 13:40 | [58] POEMMA: Probe Of Extreme Multi-Messenger Astrophysics | Dr KRIZMANIC, John |
| 14:00 | [59] Searching for GRB Counterparts to Neutrinos with Fermi-GBM | HAMBURG, Rachel |
| 14:20 | [60] Self-interacting sterile neutrino dark matter | JOHNS, Luke |