

EuCAPT Astroneutrino Theory Workshop

Monday, September 20, 2021

Participant presentations: Alexander Studenikin (on-line) - Neutrino oscillations in vacuum, matter and spin oscillations in B - Meeting room (1:50 PM - 2:10 PM)

Participant presentations: Artem Popov, Alexey Lichkunov (on-line) - The interplay of neutrino flavor and spin oscillations in a magnetic field - Meeting room (2:10 PM - 2:30 PM)

Participant presentations: Peter Maták - Cutting rules on a cylinder and quantum kinetic theory for leptogenesis and dark matter models - Meeting room (2:30 PM - 2:50 PM)

Participant presentations: Yuta Orikasa - Resonant Leptogenesis in $U(1)$ B-L model - Meeting room (2:50 PM - 3:10 PM)

Tuesday, September 21, 2021

Participant presentations: Fyedor Lazarev (on-line) - Electromagnetic effects in elastic neutrino scattering on nucleons and nuclei - Meeting room (1:50 PM - 2:10 PM)

Participant presentations: Georgy Donchenko (on-line) - Neutrino magnetic moments in low-energy neutrino scattering on atomic and condensed matter systems - Meeting room (2:10 PM - 2:30 PM)

Participant presentations: Raquel Nicolás del Álamo - A complete EoS code for neutron star evolution and cooling processes - Meeting room (2:30 PM - 2:50 PM)

Wednesday, September 22, 2021

Participant presentations: Vadim Shakhov (on-line) - Neutrino spin and flavor oscillations in transversal matter currents - Meeting room (11:20 AM - 11:40 AM)

Participant presentations: Artem Popov (on-line) - Majorana neutrino oscillations in a magnetic field and CP violation - Meeting room (11:40 AM - 12:00 PM)

Participant presentations: Konstantin Stankevich (on-line) - The effect of quantum decoherence in astrophysical neutrino oscillations - Meeting room (12:00 PM - 12:20 PM)

Thursday, September 23, 2021

Participant presentations: Takuya Morozumi (on-line) - Time evolution of Lepton Number from relativistic regime to non-relativistic regime - Meeting room (10:20 AM - 10:40 AM)

Participant presentations: Manibrata Sen - Constraining pseudo-Dirac neutrinos from a future galactic supernova - Meeting room (10:40 AM - 11:00 AM)

Participant presentations: Amina Khatun - Study of Quasi-Dirac nature of neutrino with reactor neutrinos - Meeting room (11:00 AM - 11:20 AM)

Monday, September 27, 2021

Participant presentations: Silke Britzen (on-line) - Probing AGN physics with high-energy neutrinos - Meeting room (2:20 PM - 2:40 PM)

Participant presentations: Arman Tursunov - Cosmic ray acceleration capabilities of Galactic and extragalactic black hole candidates - Meeting room (2:40 PM - 3:00 PM)

Participant presentations: Sudip Jana - Large Neutrino Magnetic Moments in the Light of Recent Experiments - Meeting room (3:00 PM - 3:20 PM)

Tuesday, September 28, 2021

Participant presentations: Ovidiu Nirescu - New Physics scenarios within Two-Neutrino Double-Beta Decay - Meeting room (2:00 PM - 2:20 PM)

Participant presentations: Oliver Scholer - A tool for distinguishing different neutrinoless double beta mechanisms - Meeting room (2:20 PM - 2:40 PM)

Thursday, September 30, 2021

Participant presentations: Maria Petropavlova - Corrections to the photon index of refraction due to the relic neutrinos with magnetic moment - Meeting room (10:50 AM - 11:10 AM)

Participant presentations: Jaroslav Vrba - Neutrino trapping in compact rotating and non-rotating objects - Meeting room (11:10 AM - 11:30 AM)