

Session Program

24-28 Jul 2017

**15th International Conference on Topics in
Astroparticle and Underground Physics,
TAUP2017**

Neutrino Parallel

Other Institutes

Laurentian University 935 Ramsey Lake Rd, Sudbury, ON P3E 2C6

Sunday 23 July

13:00

Neutrino Parallel: Neutrino 1

Session | **Location:** UPPER FRASER L FA056 | **Convener:** Hiro Tanaka

13:00–13:15 **Overview on neutrino electromagnetic properties**

Speaker

Prof. Alexander Studenikin

13:15–13:30

Limiting the effective magnetic moment of Solar neutrinos with the Borexino detector

Speakers

Livia Ludhova, Prof. Livia Ludhova

13:30–13:45

Atomic Many-Body Effects in Neutrinos and Dark Matters Detection

Speaker

Mr Chih-Pan Wu

13:45–14:00

Flavor evolution in astrophysical environments and nonlinear feedback

Speaker

Amelie Chatelain

14:00–14:15

Local density of relic neutrinos with minimal mass

Speaker

Sergio Pastor

14:15–14:30

Sensitive search for double electron capture on ^{124}Xe in XMASS

Speaker

Katsuki Hiraide

14:30–14:45

Search for the Two Neutrino Double Electron Capture with XENON1T

Speaker

Mr Alexander Fieguth

14:45–15:00

NO TALK

15:00

15:30

Neutrino Parallel: Neutrino 2

Session | **Location:** UPPER FRASER L FA056 | **Convener:** Jeanne Wilson-Hawke

15:30–15:45

Status of the SNO+ Experiment

Speaker

Erica Caden

15:45–16:00

First results of CUPID-0

Speaker

Dr Stefano Pirro

16:00-16:15

Initial Results from the MAJORANA DEMONSTRATOR

Speaker

Thomas Caldwell

16:15-16:30

The NEXT experiment for neutrinoless double beta decay searches

Speaker

Ander Simón Estévez

16:30-16:45

Latest results from NEMO-3 and commissioning status of SuperNEMO

Speaker

Mr Thibaud LE NOBLET

16:45-17:00

Discovery probability of next-generation neutrinoless double-beta decay experiments

Speaker

Dr Giovanni Benato

17:00-17:15

nEXO: a tonne-scale next-generation double-beta decay experiment

Speaker

Ryan MacLellan

17:15-17:30

NO TALK

17:30

Monday 24 July

13:30

Neutrino Parallel: Neutrino 3

Session | **Location:** FA055 and FA056 | **Convener:** David Sinclair

13:30–13:45

Investigation of double beta decay of ^{58}Ni at the Modane Underground Laboratory

Speaker

Ekaterina Rukhadze

13:45–14:00

The Large Enriched Germanium Experiment for Neutrinoless Double Beta Decay (LEGEND)

Speaker

John Wilkerson

14:00–14:15

Neutrino-less double beta decay of ^{48}Ca studied by CaF_2 (pure) scintillators

Speaker

Dr Saori Umehara

14:15–14:30

Spectral analysis for the MAJORANA DEMONSTRATOR experiment

Speaker

Dr Lukas Hehn

14:30–14:45

The neutrino mass experiment KATRIN

Speaker

Florian Fraenkle

14:45–15:00

The Electron Capture in ^{163}Ho Experiment

Speakers

Dr Stephan Scholl, for the ECHo Collaboration

15:00–15:15

Overview of Project 8 and Progress Towards Tritium Operation

Speaker

Dr Walter Pettus

15:15–15:30

Rare Low-Energy Event Searches with the MAJORANA DEMONSTRATOR

Speaker

Ms Gulden Othman

15:30

16:00

Neutrino Parallel: Neutrino 4

Session | **Location:** FA055 and FA056 | **Convener:** Clarence Virtue

16:00–16:15

Three-flavour neutrino oscillations and beyond

Speaker

Mariam Tórtola

16:15–16:30

New Measurement of Atmospheric Neutrino Oscillations with IceCube**Speaker**

Tyce DeYoung

16:30–16:45

Testing the Neutrino Mass Ordering with Multiple Years of IceCube/DeepCore**Speakers**

Martin Leuermann, Martin Leuermann

16:45–17:00

Searches for Tau Neutrino Appearance in IceCube-DeepCore**Speaker**

Michael Larson

17:00–17:15

Neutrino Oscillation Physics with IceCube Gen2/Phase1**Speaker**

Ken Clark

17:15–17:30

The ICARUS detector**Speaker**

daniele gubin

17:30–17:45

More results from the OPERA experiment**Speaker**

Nicoletta Mauri

17:45–18:00

The latest T2K results on neutrino oscillations and neutrino-nucleus interactions**Speaker**

Dr Mark Scott

18:00

Tuesday 25 July

13:00

Neutrino Parallel: Neutrino 5

Session | **Location:** FA055 and FA056 | **Convener:** Chris Jillings

13:00–13:15 **Recent results from NOvA**

Speaker

Kirk Bays

13:15–13:30

CAPTAIN: Current Neutron and Future Stopped Pion Neutrino Measurements

Speaker

Lisa Whitehead

13:30–13:45 **Hyper-Kamiokande**

Speaker

Hidekazu TANAKA

13:45–14:00 **The 2nd Hyper-Kamiokande detector in Korea**

Speaker

Seon-Hee Seo

14:00–14:15 **The Hyper-K near detector programme**

Speaker

Dr Jeanne Wilson

14:15–14:30 **Sensitivity of the DUNE Experiment to CP Violation**

Speaker

Lisa Whitehead

14:30–14:45 **Measurements of the Neutrino Flux Using the DUNE Near Detector**

Speaker

James Robert Sinclair

14:45–15:00 **The Monte Carlo simulation of the Borexino detector**

Speaker

Simone Marcocci

15:00

15:30

Neutrino Parallel: Neutrino 6

Session | **Location:** FA055 and FA056 | **Convener:** Chris Jillings

15:30–15:45 **Recent Solar neutrino Results from Super-Kamiokande**

Speaker

Yuuki Nakano

15:45–16:00 **The Super-Kamiokande Gadolinium Project**

Speaker

HiroYuki Sekiya

16:00-16:15

Solar neutrino flux at keV energies**Speaker**

Mr Edoardo Vitagliano

16:15-16:30

Astroparticle Physics in Hyper-Kamiokande**Speaker**

Dr Takatomi Yano

16:30-16:45

Supernova Neutrinos at the DUNE Experiment**Speaker**

Amanda Weinstein

16:45-17:00

Recent Results from the ANTARES Neutrino Telescope**Speaker**

Vincent Bertin

17:00-17:15

The Diffuse Supernova Neutrino Background: an update on the theory and detection prospects**Speaker**

Dr Cecilia Lunardini

17:15-17:30

Scanning the Earth with solar neutrinos and DUNE**Speaker**

Ara Ioannisyan

17:30

Wednesday 26 July

13:00

Neutrino Parallel: Neutrino 7

Session | **Location:** FA055 and FA056 | **Convener:** Thierry Lasserre

13:00–13:15 **Latest Results from Double Chooz**

Speaker

Ralitsa Sharankova

13:15–13:30 **New Results from RENO**

Speaker

Seon-Hee Seo

13:30–13:45 **Recent results of Daya Bay Reactor Neutrino Experiment**

Speaker

Haoqi Lu

13:45–14:00

PROSPECT: The Precision Reactor Oscillation and Spectrum Experiment

Speaker

Dr Karsten Heeger

14:00–14:15 **Status of JUNO**

Speaker

Dr Zhimin WANG

14:15–14:30

Neutrino geoscience and reactor monitoring with direction-sensitive detectors

Speaker

Michael Leyton

14:30–14:45 **Crustal geoneutrino signal expected at SNO+**

Speaker

Dr Marica Baldoncini

14:45–15:00 **Non-Standard Interactions: oscillation versus scattering data**

Speaker

Pilar Coloma

15:00

15:30

Neutrino Parallel: Neutrino 8

Session | **Location:** FA055 and FA056 | **Convener:** Jeanne Wilson-Hawke

15:30–15:45

The SoLiD experiment: Search for sterile neutrinos at the SCK•CEN BR2 reactor

Speaker

Luis MANZANILLAS

15:45–16:00 **Search for light sterile neutrinos with the CeSOX experiment**

Speaker

Mr Thierry Lasserre

16:00–16:15

Status of the DANSS project: in pursuit of a light sterile neutrino**Speaker**

Dr Yury Shitov

16:15–16:30

Search for eV Sterile Neutrinos - The Stereo Experiment**Speaker**

Stefan Schoppmann

16:30–16:45

Secret interactions for sterile neutrinos and cosmological implications**Speaker**

Dr Ninetta Saviano

16:45–17:00

The sterile neutrino: a combined view of cosmological limits with oscillation searches**Speaker**

Jack Elvin-Poole

17:00–17:15

Updates on atmospheric neutrino and proton decay results in Super-Kamiokande**Speaker**

Dr Kimihiro Okumura

17:15–17:30

Measuring the neutrino mass hierarchy with KM3NeT/ORCA**Speaker**

Jannik Hofestädt

17:30