

Program

Monday 15/04

09:30 – 10:00 Welcome

10:00 – 10:45 Carlo Giunti (INFN, Sezione di Torino, Italy)

“Nuclear reactor neutrinos for BSM physics”

10:45 – 11:05 Coffee break

11:05 – 11:50 Yoshinari Hayato (ICRR/University of Tokyo, Japan)

“BSM physics in Hyper-Kamiokande water Cherenkov detector”

11:50 – 12:35 Pierre Lasorak (University of Sussex, UK)

“BSM physics in DUNE liquid argon time projection chamber”

12:35 – 14:00 Lunch

14:00 – 14:45 Grayson Rich (University of Chicago, USA)

“Neutrino elastic coherent scattering”

14:45 – 15:05 Coffee break

15:05 – 15:50 Tepei Katori (Queen Mary University of London, UK)

“MiniBooNE anomaly and nuclear physics”

15:50 – 16:35 Jonathon Jordan (University of Michigan, USA)

“Sterile neutrino and stopped pion/kaon neutrino physics”

Tuesday 16/04

10:00 – 10:45 Henrique Araujo (Imperial College London, UK)

“Nuclear physics and direct WIMP search experiments”

10:45 – 11:05 Coffee break

11:05 – 11:50 Evan Grohs (LANL, USA),

“Neutrinos and weak interactions in the early universe”

11:50 – 12:35 Lorenzo, Andreoli (University of Trento, Italy)

“TBA”

12:35 – 14:00 Lunch

14:00 – 14:45 Jason Holt (TRIUMF, Canada)

“Ab-initio methods for neutrino less double beta decay and dark matter searches”

14:45 – 15:30 Takeyasu Ito (LANL, USA)

“Experimental measurements of electric dipole moments”

15:30 – 15:50 Coffee break

15:50 – 16:35 Florian Piegsa (University of Bern, Switzerland),

“The electric dipole moment of the neutron”

16:35 – 17:20 Emanuele Mereghetti (LANL, USA)

“Electric dipole moments in light nuclei”

Wednesday 17/04

10:00 – 10:45 Jon Engel (University of North Carolina, USA)

“Neutrinoless Double-beta decay”

10:45 – 11:05 Coffee break

11:05 – 11:50 Gaute Hagen (ORNL, USA)

“Ab-initio calculations of nuclear Double-beta decay matrix elements”

11:50 – 12:35 Ruben Saakyan (University College London, UK)

“Experimental challenges in double beta decay experiments”

12:35 – 14:00 Lunch

14:00 – 14:45 Alfredo Galindo-Uribarri (ORNL, USA)

“Recent results from neutrino experiments”

14:45 – 15:30 Evan Berkowitz (Institut für Kernphysik, Forschungszentrum Jülich, Switzerland)

“Lattice QCD (TBA)”

15:30 – 15:50 Coffee break

15:50 – 16:35 Robert Berger (University of Marburg, Germany)

“Molecules as probes for fundamental physics”

16:35 – 17:20 Ronald Fernando Garcia Ruiz (CERN, Switzerland)

“Exploring new physics with radioactive atoms and molecules”

Thursday 18/04

10:00 – 10:45 Joe Carlson (LANL, USA)

“Parity violations in light nuclei”

10:45 – 11:05 Coffee break

11:05 – 11:50 Juliette Mammei (University of Manitoba, Canada)

“Parity violating electron scattering for BSM physics”

11:50 – 12:35 Dan Melconian (Texas A&M University, USA),

“Testing the CKM unitarity through beta decay measurements”

12:35 – 14:00 Lunch

14:00 – 14:45 Stephan Malbrunot-Ettenauer (CERN, Switzerland),

“Nuclear ground state properties for studies of fundamental symmetries”

14:45 – 15:30 Michael Ramsey-Musolf (remote talk, University of Massachusetts, USA)

“Beyond Standard Model physics - An overview”

15:30 – 16:00 Closing remarks

Friday 19/04

10:00 – 17:00 Excursion, winery tour