



# NuFact 2022: The 23rd International Workshop on Neutrinos from Accelerators

## Saturday, July 30, 2022

**Workshop: Multi-messenger Tomography of Earth (MMTE 2022) - Wasatch A/B (9:00 AM - 6:00 PM)**

time	[id] title	presenter
9:00 AM	[M25] Welcome	ROTT, Carsten
9:15 AM	[M26] Workshop Goals	AGARWALLA, Sanjib Kumar
9:30 AM	[M50] Atmospheric Neutrinos for Non-Specialists	KEARNS, Edward
10:15 AM	[M28] The Internal Structure of the Earth	MCDONOUGH, Bill
11:00 AM	Coffee	
11:30 AM	[M14] Imaging the Earth's Interior using Seismic Waves	LEKIC, Vedran
12:15 PM	[M19] Present status and future prospects of geoneutrinos towards Earth tomography	SERAFINI, Andrea
1:00 PM	Lunch	
2:30 PM	[M30] The first neutrino absorption Earth tomography	DONINI, Andrea
3:15 PM	[M66] Measuring density of Earth's core using high-energy neutrinos observed by IceCube	HOSHINA, Kotoyo
3:40 PM	Coffee	
4:10 PM	[M12] Chemical composition and hydrogen content inside Earth	HIROSE, Kei
4:55 PM	[M93] A coupled core-mantle evolution	NAKAGAWA, Takashi
5:20 PM	[M73] Oscillation tomography of the Earth with solar neutrinos and future experiments	BAKHTI, Pouya
5:35 PM	Discussion	

# Sunday, July 31, 2022

## Workshop: Multi-messenger Tomography of Earth (MMTE 2022) - Wasatch A/B (8:55 AM - 6:00 PM)

time	[id] title	presenter
9:00 AM	[M76] Landscape of Neutrino Physics	Prof. HALZEN, Francis
9:45 AM	[M35] Earth's matter effect in neutrino oscillation	AGARWALLA, Sanjib Kumar
10:30 AM	Coffee	
11:00 AM	[M92] Current Understanding of the Earth's Core	NIMMO, Francis
11:25 AM	[M11] Neutrino Tomography of the Earth: the Potential of ORCA Detector	PETCOV, Serguey
11:50 AM	[M96] Current Understanding of Inner Core Structure and Open Questions	KOPER, Keith
12:15 PM	[M41] Measuring the Earth's outer core composition using neutrino oscillations	COELHO, Joao
12:40 PM	Lunch + Workshop Photo	
2:00 PM	[M77] An overview of the core-mantle boundary region from seismological studies	Dr THORNE, Michael
2:25 PM	[M21] Unstable structure and dynamics in Earth's deepest mantle	Dr LI, Mingming
2:50 PM	[M19] Neutrino oscillation tomography of the Earth and core composition with large water cherenkov detector	TAKETA, Akimichi
3:15 PM	Coffee	
3:45 PM	[M29] Validating the Earth's Core using Atmospheric Neutrinos with ICAL at INO	Mr KUMAR, Anil
4:10 PM	[M97] Superionic H-bearing iron alloys in the Earth's inner core	WANG, Wenzhong
4:35 PM	[M18] Observing the Earth's Core with Neutrino Oscillations	Mrs PESTES, Rebekah
5:00 PM	[M20] Neutrino Earth tomography in DUNE	MARTINEZ SOLER, Ivan
5:25 PM	Discussion	

## Workshop: ESSnuSB+ workshop - Magpie A (2:00 PM - 4:35 PM)

-Conveners: Tamer Tolba

time	[id] title	presenter
2:00 PM	[M84] Introduction to the Workshop	TOLBA, Tamer
2:05 PM	[M02] Outcome of the ESSvSB design study 2018-2022	EKELÖF, Tord
2:30 PM	[M03] Programme for the new design study ESSvSB+ 2023-2026	DRACOS, Marcos
2:55 PM	[M04] Target station and pion extraction system	TOLBA, Tamer
3:15 PM	Coffee Break	
3:30 PM	[M05] A Low Energy nuSTORM facility at ESS	OLVEGARD, Maja
3:50 PM	[M06] The Low Energy ENUBET-like Monitored Neutrino Beam	TERRANOVA, Francesco
4:15 PM	[M07] Detectors and physics performance of ESSvSB+	FANOURAKIS, George

# Monday, August 1, 2022

**Workshop: Snowmass Panel Discussion - Ballroom Lobby (5:20 PM - 6:20 PM)**

# Friday, August 5, 2022

## Workshop: Negotiation and Communication Skills for Early Career Researchers - Ballroom 2 (6:00 PM - 8:00 PM)

-Conveners: Pearl Sandick

time	[id]	title	presenter
6:00 PM	M179	Negotiation and Communication Skills for Early Career Researchers	SANDICK, Pearl