

Seattle Snowmass Summer Meeting 2022

Monday, July 18, 2022

Neutrino Physics Frontier: NF General Meeting - 130 (8:00 AM - 12:00 PM)

-Conveners: Patrick Huber; Elizabeth Worcester; Kate Scholberg

time	[id] title	presenter
8:00 AM	[124] Frontier Business and Logistics	WORCESTER, Elizabeth SCHOLBERG, Kate HUBER, Patrick
8:45 AM	[125] Current Program: NOvA	VAHLE, Patricia VAHLE, Patricia
9:05 AM	[126] Current Program: SBN	WILSON, Robert WILSON, Robert
9:25 AM	[127] Current Program: Low Energy Neutrinos	LITTLEJOHN, Bryce LITTLEJOHN, Bryce LITTLEJOHN, Bryce
9:45 AM	Coffee Break	
10:15 AM	[128] DUNE: Report from CD1RR	RAMEIKA, Regina
10:35 AM	[129] DUNE: Overview	MARSHALL, Chris
11:15 AM	[130] Neutrino Town Hall	

Tuesday, July 19, 2022

Neutrino Physics Frontier: DUNE P5 Strategy (Oscillation Physics) - 120 (8:00 AM - 10:00 AM)

-Conveners: Elizabeth Worcester

time	[id] title	presenter
8:00 AM	[131] DUNE Oscillation Analysis	WILKINSON, Callum WILKINSON, Callum
8:28 AM	[132] Neutrino Interactions and the DUNE Oscillation Analysis	MCFARLAND, Kevin
8:56 AM	[133] DUNE Near Detector	CHERDACK, Daniel
9:24 AM	[134] Oscillation Physics Global Context	AGARWALLA, Sanjib Kumar
9:52 AM	Coffee Break	

Neutrino Physics Frontier: DUNE P5 Strategy (Low Energy and BSM Physics) - 120 (10:00 AM - 12:00 PM)

-Conveners: Patrick Huber

time	[id] title	presenter
10:00 AM	Coffee Break	
10:08 AM	[135] SNB/Solar Neutrinos in DUNE	PERSHEY, Daniel PERSHEY, Daniel
10:36 AM	[136] BSM Context and Motivation	COLOMA, Pilar
11:04 AM	[137] Beyond 3-Flavor Oscillations in DUNE	SOUSA, Alexandre
11:32 AM	[138] Direct BSM Detection in DUNE	YU, Jaehoon YU, Jaehoon

Wednesday, July 20, 2022

Neutrino Physics Frontier: DUNE P5 Strategy (Expanded Physics Scope in Phase II) - 110 (8:00 AM - 10:00 AM)

-Conveners: Kate Scholberg

time	[id] title	presenter
8:00 AM	A141] Dark Matter	KELLY, Kevin KELLY, Kevin
8:28 AM	A140] Neutrinoless Double Beta Decay	GRUSZKO, Julieta
8:56 AM	A139] Low(er) Energy Physics	CARATELLI, David
9:24 AM	A142] Tau neutrino appearance	BISHAI, Mary BISHAI, Mary
9:52 AM	Coffee break	

Neutrino Physics Frontier: DUNE P5 Strategy (Phase II Detector R&D) - 110 (10:00 AM - 12:00 PM)

-Conveners: Elizabeth Worcester

time	[id] title	presenter
10:00 AM	Coffee Break	
10:05	A143] DUNE Context	BERTOLUCCI, Sergio
10:25	A144] ND-GAr	RAAF, Jennifer
10:44	A145] LArTPC Pixels	RUSSELL, Brooke
11:03	A146] Underground Argon	JACKSON, Christopher
11:22	A147] Photo-ionizing LAr	PSIHAS OLMEDO, Fernanda
11:41	A148] Theia	OREBI GANN, Gabriel OREBI GANN, Gabriel

Thursday, July 21, 2022

Neutrino Physics Frontier: Blue Sky/Very Long Term ideas - 254 (8:00 AM - 10:00 AM)

-Conveners: Louis Strigari; Kate Scholberg; Raimund Strauss

time	[id] title	presenter
8:00 AM	[1054] Low-threshold detectors	GOLWALA, Sunil
8:15 AM	[1055] Ptolemy	TAN, Andi
8:30 AM	[1056] Directional neutrino and dark matter detection	VAHSEN, Sven
8:45 AM	[1057] Ultra-high energy neutrinos	OLINTO, Angela
9:00 AM	[1058] Paleo detectors	EDWARDS, Tom
9:15 AM	[1053] Panel discussion	MONREAL, Ben BARACCHINI, Elisabetta FREESE, Katherine
9:50 AM	Coffee Break	

Neutrino Physics Frontier: Experimental Neutrino Anomalies - 254 (10:00 AM - 12:00 PM)

-Conveners: Bryce Littlejohn; Alexandre Sousa; Pedro Machado; Georgia Karagiorgi

time	[id] title	presenter
10:00 AM	Coffee Break	
10:05 AM	[1053] Overview: Neutrino Experimental Anomalies	SOUSA, Alexandre LITTLEJOHN, Bryce KARAGIORGI, Georgia MACHADO, Pedro
10:15 AM	[1054] Experimental Status: Atmospheric/Accelerator DIF and DAR	ROSS-LONERGAN, Mark
10:30 AM	[1055] Experimental Status: Radioactive Sources and Reactors over the Past 10 Years	SURUKUCHI, Pranava Teja
10:45 AM	[1056] Recent Theory Progress and Interpretation(s)	HOSTERT, Matheus
11:05 AM	[1057] Panel: Path to Resolution through Neutrino Experiments and Beyond	MARINO, Alysia ARGÜELLES DELGADO, Carlos SCHMITZ, David KARAGIORGI, Georgia SPITZ, Joshua HEEGER, Karsten SCHOLBERG, Kate KELLY, Kevin LOVERDE, Marilena TOUPS, Matthew WALLBANK, Michael DIWAN, Milind SVOBODA, Robert PETTUS, Walter TABRIZI, Zahra

Friday, July 22, 2022

Neutrino Physics Frontier: Optimizing Among Funding Agencies - 254 (8:00 AM - 10:00 AM)

-Conveners: Julieta Gruszko; Steven Gardiner; Kate Scholberg

time	[id]	title	presenter
8:00 AM	M12	Neutrino Frontier Inter-Agency Discussion	

Saturday, July 23, 2022

Neutrino Physics Frontier: BSM/Dark Sectors & Reactor Neutrinos (Early Career Presentations) - 254 (8:00 AM - 12:00 PM)

-Conveners: Julieta Gruszko; Jacob Zetlemoyer

time	[id] title	presenter
8:00 AM	M154] First Results from MicroBooNE's Low Energy Excess Search and Constraints on eV-Scale Sterile Neutrino Oscillations	JO, Jay Hyun
8:22 AM	M123] New bounds on axion-like particles from MicroBooNE	URREA, Salvador URREA GONZALEZ, Salvador
8:44 AM	M124] Prospects for Dark Sector Searches at the Deep Underground Neutrino Experiment	JANG, Wooyoung
9:06 AM	M125] Searching for dark matter with COHERENT at the Spallation Neutron Source	PERSHEY, Daniel
9:28 AM	M126] Searches for New Physics at an Upgraded Fermilab Accelerator Complex: PIP2-BD and SBN-BD	ZETTLEMOYER, Jacob
9:50 AM	M127] Bounds on Right Handed Neutrino Parameters from Observable Leptogenesis	SANDNER, Stefan
10:12 AM	Break	
10:32 AM	M128] Forthcoming Science from the PROSPECT-I Data Set	VENEGAS VARGAS, Diego
10:54 AM	M129] The design and expanded physics reach of the PROSPECT-II detector upgrade	SUTANTO, Felicia
11:16 AM	M130] CONFLUX – A standard framework for reactor neutrino flux calculation	ZHANG, XIANYI
11:38 AM	M131] JUNO: Physics Prospects and Status	MANDUJANO, Roberto Carlos

Neutrino Physics Frontier: DUNE & Neutrino Interactions (Early Career Presentations) - 241 (8:00 AM - 12:00 PM)

-Conveners: Jacob Zetlemoyer; Steven Gardiner; Vishvas Pandey

time	[id] title	presenter
8:00 AM	M132] A Gaseous Argon-Based Near Detector to Enhance the Physics Capabilities of DUNE	MOHAYAI, Tanaz
8:22 AM	M133] The Modular LArTPC – Design and Prototype for the DUNE ND	VALLARI, Zoya
8:44 AM	M134] Sensitivity to Heavy Neutral Leptons with the SAND detector at the DUNE ND complex	GHORBANIMOOGHADDAM, zahra
9:06 AM	M135] Studies of tau neutrino appearance at the DUNE Near Detector complex	RAZAFINIME, Soamasina Herilala
9:28 AM	M136] Probing active-sterile neutrino mixing in LED and 3+1 scenarios with DUNE	VANEGAS FORERO, David
9:50 AM	M137] BSM Targets at a Target-less DUNE	TABRIZI, Zahra
10:12 AM	Break	
10:32 AM	M138] The NOvA Test Beam Program	WALLBANK, Michael
10:54 AM	M139] MicroBooNE's Neutrino Cross-Section Program	BHATTACHARYA, Meghna

11:16 AM	[240] Prospects for DUNE Measurements of Deep Inelastic Charged-Current Tau Neutrino Interactions	YAEAGY, Barbara
11:38 AM	[241] Bubble Chamber Detectors with Light Nuclear Targets for Neutrino Scattering	RAMSON, Bryan

Sunday, July 24, 2022

Neutrino Physics Frontier: New Opportunities in Neutrinos (Early Career Presentations) - 022 (10:00 AM - 12:00 PM)

-Conveners: Jacob Zetlemoyer; Tanaz Mohayai

time	[id] title	presenter
10:00	A242 [A242] Low-energy neutrino physics at Theia	BAGDASARIAN, Zara
10:20	A243 [A243] High energy physics program at Theia	PICKARD, Leon
10:40	A244 [A244] Accelerator Neutrino Oscillation Experiments: This Generation and Next	WOOD, Kevin
11:00	A245 [A245] Physics at the MeV-Scale in LArTPCs	FOREMAN, William
11:20	A246 [A246] Low Energy Physics Program of DUNE	SOGO BEZERRA, Thiago
11:40	A247 [A247] Doped Liquid Argon TPCs as a Neutrinoless Double Beta Decay Platform	PSIHAS OLMEDO, Fernanda

Neutrino Physics Frontier: The Future is Now (Early Career Presentations) - 175 (10:00 AM - 12:00 PM)

-Conveners: Samuel Hedges; Jacob Zetlemoyer

time	[id] title	presenter
10:00	A248 [A248] Mobile Antineutrino Demonstrator project	KYZYLOVA, Olga
10:24	A249 [A249] Design of novel plastic scintillator technologies for neutrino detection at LLNL	ROCA, Cristian
10:48	A250 [A250] EOS: A tonne-scale testbed for hybrid neutrino detectors	KAPTANOGLU, Tanner
11:12	A251 [A251] Enhanced Particle Identification in Water-based Liquid Scintillator	AKINDELE, Tomi
11:36	A252 [A252] CUPID, CUPID-1T, and the DEMETER demonstrator	HANSEN, Erin

Neutrino Physics Frontier: Beyond neutrino mass physics reach of precision beta-decay experiments - 238 (10:00 AM - 12:00 PM)

-Conveners: Bryce Littlejohn; Ian Shoemaker; Diana Parno

time	[id] title	presenter
10:00	A212 [A212] Experimental overview of precision beta-decay measurements	LEACH, Kyle
10:30	A213 [A213] Overview of BSM reach in beta-decay experiments	BRDAR, Vedran
11:00	A214 [A214] Overview of sterile-neutrino sensitivity in beta-spectrum measurements	SURUKUCHI, Pranava Teja
11:30	A215 [A215] Further discussion	

Neutrino Physics Frontier: Community Engagement Success Stories - 026 (10:00 AM - 12:00 PM)

-Conveners: Elizabeth Worcester

time	[id] title	presenter
10:00	A149 [A149] SURF Outreach and Community Relations	HEADLEY, Mike
10:20	A150 [A150] SURF Neutrino Day	WALTER, Connie
10:40	A151 [A151] IceCube Outreach	MADSEN, Jim
11:00	A152 [A152] nuSTEAM	CHERDACK, Daniel
11:20	A153 [A153] MicroBooNE VR	DEL TUTTO, Marco

11:40 AM	Discussion	
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