Session Program

3-4 Aug 2022

SNEWS 2022 Collaboration Meeting & Hackaton

Collaboration Meeting

Purdue Physics, Room 223 Purdue University Physics Dept, 2nd floor. Some hybrid meetings via the usual zoom channel https:// zoom.us/j/7654943048 see email or slack for the password

Tuesday 2 August

^{09:00} Collaboration Meeting: Welcome & Modelling

Session

Location: Purdue Physics, Room 223, Department of Physics & Astronomy, Purdue University, 525 Northwestern Avenue, West Lafayette, IN 47907. | Conveners: Rafael Lang, Alec Thomas Habig

09:00-09:15 Welcome Address

Speaker

Rafael Lang

09:15-09:45

Core-Collapse Supernova: the role of equation of state and the accretion of Si/O interface

Speaker

Mr Luca Boccioli

09:45-10:15

Core-Collapse Supernovae : From neutrino-driven 1D explosions to light curves and spectra

Speaker

Dr Sanjana Curtis

11:00

10:30

Collaboration Meeting: Pre-supernova & Detector Response

Session

Location: Purdue Physics, Room 223, Department of Physics & Astronomy, Purdue University, 525 Northwestern Avenue, West Lafayette, IN 47907. | **Convener:** Dr Jost Migenda

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11:00-11:30 Presupernova neutrinos: theory overview

Speakers

Cecilia Lunardini, Cecilia Lunardini

11:30-11:45 **Presupernova neutrinos: experiments and discussion**

Speakers

Andrey Sheshukov, Mr Andrey Sheshukov

11:45-11:50 TG3 Introduction

Speakers

Dr Jost Migenda, Dr Marta Colomer, Marta Colomer

11:50-12:05 SNOwGLoBES v1.3

Speakers

Sebastian Torres-Lara, Sebastian Torres-Lara

12:05-12:20 SNtools and generator comparison in SNO+

Speakers

Sammy Valder, Dr Sammy Valder

12:30 16:30	12:20-12:30 Inelastic charged current interaction of SN neutrinos in two-phase liquid xenon dark matter detectors Speaker Sayan Ghosh
	Collaboration Meeting: Detector Response Session Location: Purdue Physics, Room 223, Purdue University Physics Dept, 2nd floor. Some hybrid meetings via the usual zoom channel https://zoom.us/j/7654943048 see email or slack for the password Conveners: marta colomer, Marta Colomer, Dr Jost Migenda
	16:30-16:40 Reports from Breakouts Speaker Rafael Lang
	16:40-16:55 SNEWPY: Overview Speaker Dr Jost Migenda
	16:55-17:10 SNEWPY: Advanced Flavor Transformations Speaker James Kneller
	17:10-17:25 SNEWPY: Simple Rate calculation Speakers Sonia El Hedri, Prof. Sonia El Hedri
18:00	17:25-17:40 EstrellaNueva Speaker Prof. Eric Vázquez Jáuregui

Wednesday 3 August

	ue Physics, Room 223, Purdue University Physics Dept, 2nd floor. Some hybrid meetings via the uttps://zoom.us/j/7654943048 see email or slack for the password $~~ $ ey Tseng
09:00-09:20	SNEWS Publishing Tools & Coincidence System
Speakers Melih Kara, Sel	pastian Torres-Lara
09:20-09:25	SNAX: A supernova tool for XENONnT
Speaker Melih Kara	
09:25-09:40	CEvNS detection and SNEWS implementation in XENONnT
Speaker Amanda Baxte	r
09:40-10:00	Supernova distance and time difference calculations
Speakers Dr Marta Color	ner, marta colomer
10:00-10:15	Determining t0
Speaker Remington Hill	
10:15-10:30	DUNE pointing
Speaker Mr Joshua Que	en
Session Location: Purd	tion Meeting: Triangulation & Fire Drills ue Physics, Room 223, Purdue University Physics Dept, 2nd floor. Some hybrid meetings via the u ttps://zoom.us/j/7654943048 see email or slack for the password Mass hierarchy and triangulation
11:00-11:15 Speakers	Vedran Brdar, Dr Vedran Brdar
11:00-11:15 Speakers	
11:00-11:15 Speakers Vedran Brdar, T	Vedran Brdar, Dr Vedran Brdar
11:00-11:15 Speakers Vedran Brdar, 11:15-11:25 Speaker	Vedran Brdar, Dr Vedran Brdar

12:30

Lindley Winslow

16:30	Collaboration Meeting: Multi-messenger & Outreach Session Location: Purdue Physics, Room 223, Purdue University Physics Dept, 2nd floor. Some hybrid meetings via the usual zoom channel https://zoom.us/j/7654943048 see email or slack for the password Conveners: Dr Barry Pointon, Rafael Lang
	16:30-16:40 Reports from Breakouts Speaker Rafael Lang
	16:40-16:50 Supernova Candidate List Speaker Sarah Healy
	16:50-17:10 Automating follow-up to a SNEWS alert Speaker Dan Milisavljevic
	17:10-17:25 Supernova App demonstration Speaker Peter B Kramer
	17:25-17:40 Progress in SNEWS Outreach Speaker Dr Barry Pointon

18:00