

## **Tuesday 2 August**

09:00

#### **Collaboration Meeting: Welcome & Modelling**

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

10:30 11:00

## Collaboration Meeting: Pre-supernova & Detector Response

Location: Purdue Physics, Room 223, Department of Physics & Astronomy, Purdue University, 525 Northwestern

Avenue, West Lafayette, IN 47907.

Convener: Dr Jost Migenda

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

12:20-12:30

Inelastic charged current interaction of SN neutrinos in two-phase liquid xenon dark matter detectors

#### Speaker

Sayan Ghosh

12:30 16:30

### **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

17:25-17:40 EstrellaNueva

Speaker

Prof. Eric Vázquez Jáuregui

18:00

## Wednesday 3 August

09:00

# **Collaboration Meeting: Implementation & Triangulation** 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 **Convener:** Jeffrey Tseng 09:00-09:20 SNEWS Publishing Tools & Coincidence System Speakers Melih Kara, Sebastian 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 Amanda Baxter 09:40-10:00 Supernova distance and time difference calculations **Speakers** Dr Marta Colomer, marta colomer 10:00-10:15 **Determining t0 Speaker** Remington Hill 10:15-10:30 **DUNE pointing**

10:30

11:00

## **Collaboration Meeting: Triangulation & Fire Drills**

Session

**Speaker** Mr Joshua Queen

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11:00-11:15 Mass hierarchy and triangulation

Speakers
Vedran Brdar, Vedran Brdar, Dr Vedran Brdar

11:15-11:25 Making Sky-maps from time series comparisons

Speaker
Cal Hewitt

11:25-11:40 Towards supernova readiness and discussion

Speaker

Jeffrey Tseng

11:40-12:00 Plans for testing the system until follow-up

Lindl

**Speaker**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