

SNEWS 2022 Collaboration Meeting & Hackaton

Monday 1 August 2022 - Friday 5 August 2022

Purdue Physics

Book of Abstracts

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Welcome Address

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Opening remarks

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Presupernova neutrinos: theory overview

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(20 + 10) mins

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Presupernova neutrinos: experiments and discussion

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(10 + 5) mins

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

(20 + 10) mins

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

(20 + 10) mins

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SNOWGLoBES v1.3

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SNtools and generator comparison in SNO+

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

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TG3 Introduction

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SNEWPY: Overview

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SNEWPY: Advanced Flavor Transformations

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SNEWPY: Simple Rate calculation

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EstrellaNueva

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SNEWS Publishing Tools & Coincidence System

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CEvNS detection and SNEWS implementation in XENONnT

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Supernova distance and time difference calculations

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Determining t_0

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DUNE pointing

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Mass hierarchy and triangulation

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Towards supernova readiness and discussion

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Plans for testing the system until follow-up

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(10 + 10) mins

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Supernova Candidate List

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Progress in SNEWS Outreach

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Outreach and discussions

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Finalizing Supernova models

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Web page developments

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Fire Drills

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Fire Drill Organizations

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SNEWPY Q&A

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MoU

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Saturation in noble liquid DM detectors from CC interaction of SN neutrinos

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Making Sky-maps from time series comparisons

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TG3 Introduction

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Reports from Breakouts

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Report from Breakouts

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Automating follow-up to a SNEWS alert

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SNAX: A supernova tool for XENONnT

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Supernova App demonstration

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