



# NEW DIRECTIONS IN NEUTRINO- NUCLEUS SCATTERING (NUSTEC WORKSHOP)

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Kirsty Duffy, Camillo Mariani



# OVERVIEW

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- We are planning a NuSTEC workshop for early 2021
- Aim is to provide a forum for community to gather and have discussions, and **provide an opportunity for young members of the community to present**
- This is **not a NuInt**, or a replacement for NuInt
- To emphasize that, we decided on a workshop theme: **new directions** in neutrino-nucleus scattering
- Want to hear about new ideas in experiment, theory, and generator development. What can we look forward to? What can we expect to see soon (or further in the future)?

# OVERVIEW

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- Workshop will be co-chaired by Kirsty Duffy and Camillo Mariani
  - Organising committee: Jon Paley, Luis Alvarez-Ruso, Jorge Morfin, Un-ki Yang, Andy Furmanski, Steve Dytman, Dan Cherdack, Natalie Jachowicz, Yoshinari Hayato, Vishvas Pandey
  - Meeting weekly on Wednesdays at 8am Central (3pm CET, 11pm South Korea)
- Proposed dates for workshop: **March 22-25**
  - U.S. will have changed clocks but Europe will have not — brings U.S. time closer to Europe and Asia
  - **Please check for conflicts** and **let us know before one week from today** (Thursday 17th December) so we can finalize these dates

# WORKSHOP FORMAT

- Decided on 7am-12 noon Central (on proposed dates: 1-6pm CET, 9pm-2am Korea)

- Half days to avoid zoom fatigue/suit all time zones as well as possible

	Day 1	Day 2	Day 3	Day 4	Day 5?
07:00					<b>Workshop</b>
07:30					<b>summary</b>
08:00					<b>and</b>
08:30					<b>discussion?</b>
09:00	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	
09:30	<b>Discussion</b>	<b>Discussion</b>	<b>Discussion</b>	<b>Discussion</b>	
10:00					
10:30					
11:00					
11:30	<b>Discussion/ more talks?</b>	<b>Discussion/ more talks?</b>	<b>Discussion/ more talks?</b>	<b>Discussion/ more talks?</b>	
12:00	<b>End</b>	<b>End</b>	<b>End</b>	<b>End</b>	

- Discussion in the middle of each day to allow for participation from Asia (can also cover talks from second half of previous day)
- We are considering approaches to structured discussion, to make sure we get the most out of these discussion times

# WORKSHOP TOPICS

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- General topics we have agreed on:
  - Experiments (incl. electron scattering)
  - Event generators
  - Theory
  - New detector ideas
  - Low-energy neutrino scattering (experiment and theory)
- We are still finalizing the list of desired talks within those topics
- Will have to make some tough choices to fit everything we want to hear about into the compressed time

# FLASH TALKS

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- Set aside ~2 hours for a contributed “flash talks” session
- 7+3 minutes per talk
- Aim is to provide more opportunities for young physicists to present: elevated poster session
- A nice side effect: allows us to solicit contributions and we may hear about some more new ideas we aren't already aware of

# TO-DO LIST

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- **For everyone: please check for conflicts on the week beginning 22nd March**
  - We would like to finalize the dates as soon as possible
  - Once we have done that, we can start to advertise the workshop so people have it on their calendars
- We need to **finalize the list of invited talks** (and make sure it fits with the available time)
  - Aim to send out talk invitations before the end of the year
- Need to decide whether we want an extra session on the 5th day
- Finalize plans for structured discussion, and identify/invite discussion leaders
- Input welcome! You can email us, join our Wednesday meetings, or join the **slack channel workshop-planning**