



NuSTEC

- NuSTEC News
- NuInt conference series
- NuSTEC school
- Neutrino interaction physics workshops, conferences, schools

NuSTEC



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NuSTEC: Neutrino Scattering Theory Experiment Collaboration

What is NuSTEC?

NuSTEC is a collaboration of theorists and experimentalists. NuSTEC promotes the collaborations and coordinates efforts between:

- Theorists – studying neutrino nucleon/nucleus interactions and related problems
- Experimentalists – primarily those actively engaged in neutrino nucleus scattering experiments as well as those trying to understand oscillation experiment systematics. e-A experimentalists are certainly welcome.
- Generator builders – actively developing/modifying the model of the nucleus as well as the behavior of particles in/out of the nucleus within generators.

The main goal is to improve our understanding of neutrino interactions with nucleons and nuclei and, practically, get that understanding in our event generators.

- Along the way we want to expand support for theorists and encourage a growing theoretical community.

NuSTEC board

Theorists

- **Luis Alvarez Ruso** (co-spokespersons, IFIC, Valencia, Spain)
- **Mohammad Sajjad Athar** (Aligarh Muslim University, Aligarh, India)
- **Maria Barbara** (University of Turin, Turin, Italy)
- **Omar Benhar** (Sapienza University of Rome, Rome, Italy)
- **Natalie Jachowicz** (Ghent University, Ghent, Belgium)

Teppei Katori
 Queen Mary University of London
 NuSTEC meeting, Jan. 18, 2017

NuSTEC website

<https://nustec.fnal.gov/> (not public yet)

- Fermilab standard “wordpress” template
- Authors: Gabe Perdue, Teppei Katori (new contribution welcome!)

Front page

- Fermilab standard links
 - Slide show (NuInt15, etc)
 - statement
 - board member list and links
 - few icons
 - main menu (4 categories)
1. NuSTEC News subscribe
 2. NuInt links
 3. NuSTEC school
 4. Other nu-xsec workshops



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NuSTEC board

Board member list and links

No links for

- Steve Brice
- Jorge Morfin
- Ornella Palamara
- Federico Sanchez

How to display publication list?

- it's easy to add links of INSPIRE
- do we want to highlight any specific papers? (new papers, NuSTEC collaboration paper, etc)

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- **Luis Alvarez Ruso** (co-spokespersons, IFIC, Valencia, Spain)
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- **Omar Benhar** (Sapienza University of Rome, Rome, Italy)
- **Natalie Jachowicz** (Ghent University, Ghent, Belgium)
- **Marco Martini** (IRFU Saclay, Saclay, France)
- **Toru Sato** (Osaka, University, Osaka, Japan)
- **Rocco Schiavilla** (Old Dominion University and Jefferson Lab, Norfolk, VA, USA)
- **Jan Sobczyk** (nuWro representative, University of Wroclaw, Wroclaw, Poland)

Experimentalists

- **Steve Brice** (Fermilab, IL, USA)
- **Dan Cherdack** (Colorado State University, Fort Collins, CO, USA)
- **Steve Dytman** (University of Pittsburgh, Pittsburgh, PA, USA)
- **Rik Gran** (University of Minnesota, Twin Cities, MN, USA)
- **Yoshinari Hayato** (NEUT representative, ICRR, Univ. Tokyo, Japan)
- **Teppei Katori** (Queen Mary University of London, UK)
- **Kendall Mahn** (Michigan State University, East Lansing, MI, USA)
- **Camillo Mariani** (Center for neutrino physics, Virginia Tech, Blacksburg, VA, USA)
- **Mark Messier** (Indiana University, Bloomington, IN, USA)
- **Jorge G. Morfin** (co-spokespersons, Fermilab, IL, USA)
- **Ornella Palamara** (Fermilab, IL, USA)
- **Roberto Petti** (University of South Carolina, Columbia, SC, USA)
- **Gabe Perdue** (GENIE representative, Fermilab, IL, USA)
- **Makoto Sakuda** (Okayama University, Okayama, Japan)
- **Federico Sanchez** (IFAE, Autonomous University of Barcelona, Barcelona, Spain)
- **Sam Zeller** (Fermilab, IL, USA)

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NuSTEC News

The “NuSTEC News” is the community newsletter about neutrino interaction physics. It discusses the latest interesting neutrino cross result, either experiment or theory, roughly every other week. This is the place for all of us to learn neutrino interaction physics together. All e-mails are archived at [here](#).

- To unsubscribe
Send an e-mail to listserv@fnal.gov
Leave the subject line blank
Type “unsubscribe nustec-news” (without the quotation marks) in the body
- To subscribe
Send an e-mail to listserv@fnal.gov
Leave the subject line blank
Type “subscribe nustec-news firstname lastname”

Please “like” [Neutrino Cross-Section Newsletter Facebook page](#), also Twitter hashtag is [#nuxsec](#)

You can also subscribe the long-baseline neutrino oscillation newsletters, a newsletter for general neutrino physics.

Now we use Fermilab listserv system

- 449 subscribers (Jan 16, 2017)
- **New “owner/editor” welcome!**

LISTSERV 16.0
Fermilab
List Management • Subscribers Corner • Email Lists

List Management Dashboard

Select List: [Select List] [Update]

Search Options
[Show Lists] [Search]

Dashboard for katori@fnal.gov

Technical Support
Technical support has been enabled. If you encounter problems with your lists, you can contact the server administrator by clicking on the busy icon.
Once you click on this icon, an email message opens. Enter any information describing your problem. Please be as detailed as possible.

List Name	Subscribers	Send	Subscription
BOONE-SHIFT [Configure]	2 [View]	Public [Edit]	Open [Edit]
MICROBOONE_PMTS [Configure]	25 [View]	Private [Edit]	By Owner [Edit]
NuSTEC-BOARD [Configure]	27 [View]	Private [Edit]	Closed [Edit]
NuSTEC-NEWS [Configure]	449 [View]	Private [Edit]	By Owner [Edit]
PITTAUXS2016 [Configure]	29 [View]	Private [Edit]	By Owner [Edit]

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NuInt conference series

The goal of the “International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region” (NuInt series) is to bring theorists and experimentalists from the nuclear and high-energy community together to address the many challenges to understanding these complex interactions. After reviewing the motivation for these studies and the ongoing experimental efforts, the topic of nuclear effects will be introduced and each of the neutrino-nucleus scattering channels that contribute in the low-energy regime will be covered. Recent scattering results from oscillation experiments as well as the potential of experiments specifically designed to study these interactions will be discussed. The work of both nuclear and high-energy theorists to provide improved theoretical descriptions of these channels will also be reviewed.

- NuInt17, June 25-30 2015, Toronto, Canada (TBA)
- NuInt15, Nov. 16-21 2015, Okayama University, Okayama, Japan
- NuInt14, May 9-24 2014, Selsdon Park Hotel, Surrey, UK
- NuInt12, Oct. 22-27 2012, CBPF, Rio De Janeiro, Brazil
- NuInt11, Mar. 7-11 2011, Dehradun, India
- NuInt09, May 18-22 2009, Sitges, Spain
- NuInt07, May 3-June 3 2007, Fermilab, USA
- NuInt05, Sep. 26-29 2005, Okayama university, Okayama, Japan
- NuInt04, Mar. 17-21 2004, Gran Sasso, Italy
- NuInt02, Dec. 12-15 2002, UC Irvine, Irvine, USA
- NuInt01, Dec. 13-16 2001, KEK, Japan

Proceedings of NuInt conference series are available from [INSPIRE](#).

- Links are broken for
- NuInt 02 (UC Irvine)
 - NuInt 05 (Okayama)
 - NuInt 09 (Sitges)
 - NuInt 11 (Dehradun)

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NuSTEC school

NUSTEC organizes and runs generator and neutrino scattering physics schools/trainings.

- 2015, NuSTEC School, November 8-14, Okayama University, Japan
- 2014, NuSTEC School, October 20-30, Fermilab, USA
- 2014, NuSTEC MC School, May 14-16, Liverpool, UK

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2017

2016

- Dec. 5-9 2016, INT Workshop “Theoretical developments in neutrino-nucleus scattering”, Univ. Washington, Seattle, USA
- Aug. 21-27 2016, NuFact16, Quy Nhon, Vietnam
- July 24-31 2016, PittPACC workshop “Neutrino cross-section data tensions workshop”
- July 11-15 2016, NuTune2016 “International workshop on global fits to neutrino scattering data and generator tuning”, Liverpool, UK
- June 27-July 1 2016, Elba XIV “Lepton-nucleus scattering”, Marcialina Marina, Isola d’Elba, Italy
- April 18-22 2016, ESNT workshop “Two-body current contributions in neutrino-nucleus scattering”, CEA Saclay, France

You can also find the list of workshops, conferences, and schools on general neutrino physics at Neutrino Industry.

Someone have to keep eyes on all new nu-xsec workshops/schools to update this section (bit high maintenance)

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NuSTEC News 758 likes
MINERvA 753 likes
NOvA 1633 likes
Fermilab 87293 likes
Trump 18M likes
Justin Bieber 77M likes

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Facebook (758 likes, Jan 17, 2017)

<https://www.facebook.com/nuxsec/>

- general science news
- nu-xsec new papers
- conference report

Twitter (hashtag #nuxsec)

- nu-xsec papers
- conference report
- W&C seminar live report

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Editor/writer
contribution
welcome!

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Other ideas

- **Postdoc job advertisement**
- Dedicated publication page
- Chat room (slack?)

Postdoc job advertisement of

- NuSTEC postdoc
- postdocs of NuSTEC member institute
- others

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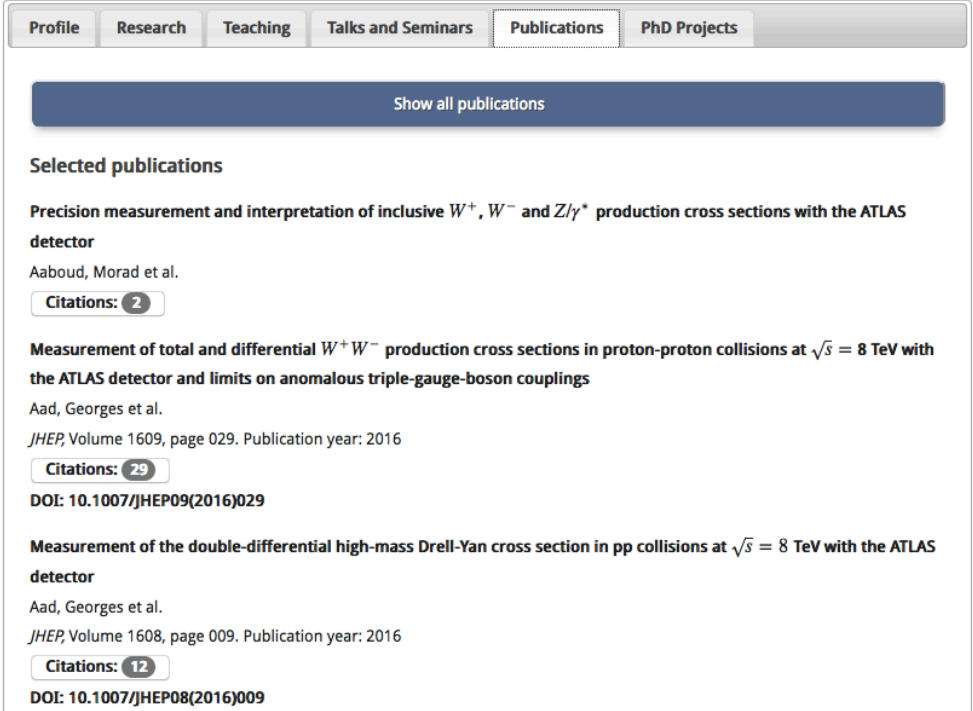
Other ideas

- Postdoc job advertisement
- **Dedicated publication page**
- Chat room (slack?)

It’s easy to make a link from INSPIRE record. But it is also possible to display INSPIRE record papers within NuSTEC website (and automate)

Probably we want to use this only papers with “NuSTEC collaboration”? (it’s messy to highlight >30 people’s individual papers)

Queen Mary faculty page



The screenshot shows a faculty profile page with navigation tabs: Profile, Research, Teaching, Talks and Seminars, Publications, and PhD Projects. A button labeled "Show all publications" is visible. Below, under "Selected publications", three entries are listed:

- Precision measurement and interpretation of inclusive W^+ , W^- and Z/γ^* production cross sections with the ATLAS detector**
Aaboud, Morad et al.
Citations: 2
- Measurement of total and differential W^+W^- production cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous triple-gauge-boson couplings**
Aad, Georges et al.
JHEP, Volume 1609, page 029. Publication year: 2016
Citations: 29
DOI: 10.1007/JHEP09(2016)029
- Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**
Aad, Georges et al.
JHEP, Volume 1608, page 009. Publication year: 2016
Citations: 12
DOI: 10.1007/JHEP08(2016)009

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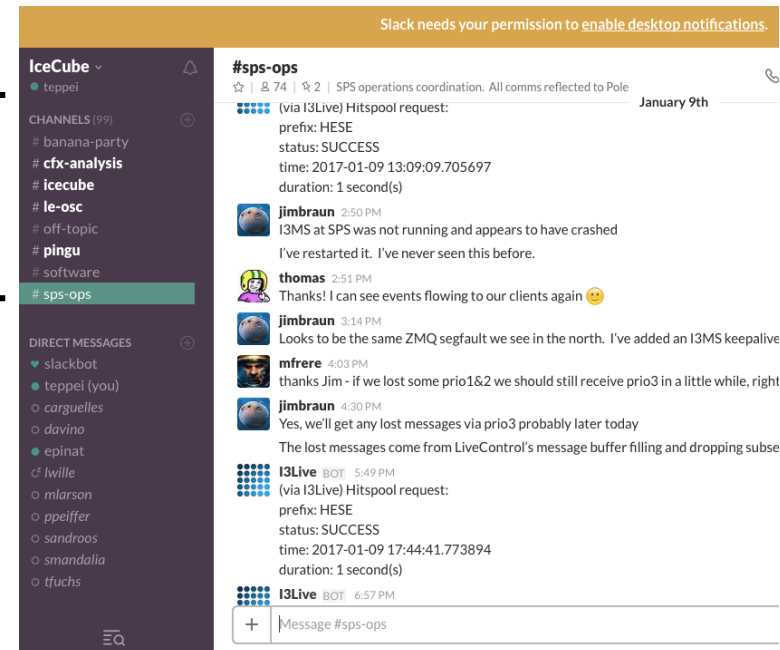
- Postdoc job advertisement
- Dedicated publication page
- Chat room (slack?)

Ulrich said offering a place to have “discussions” or ask questions may be good. These days, many experiments use “slack chat system”, we can use it

Topics

Private message

IceCube Slack



Discussion

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Anything else?