Closing Remarks

XXIX International Conference on Neutrino Physics and Astrophysics

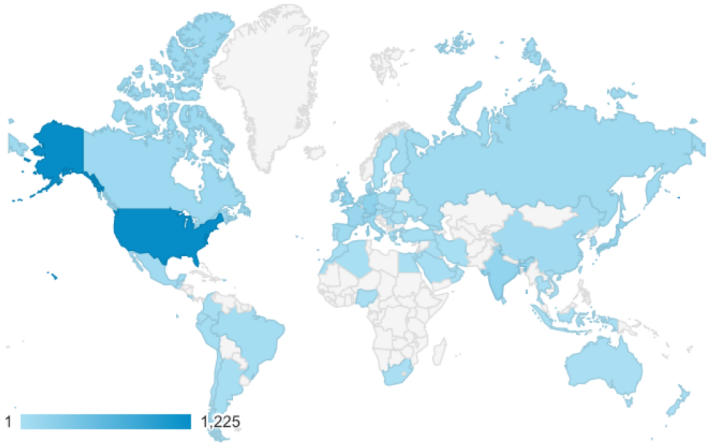
Thursday 2 July 2020

on behalf of the Co-Chairs: Steve Brice, Marvin Marshak, Sam Zeller

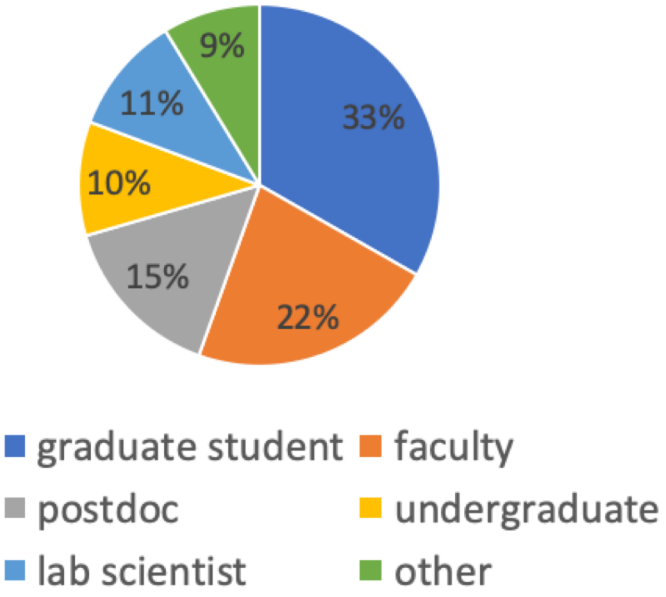
Some Statistics

(numbers as of July 1, 2020)

- 3,387 people from > 65 countries connected for talks
  - attendees connected from almost every region in the world including Macao, Ecuador, Kenya, Serbia, Indonesia, Argentina, and Oman (to name just a few examples)
  - ~60% were students and postdocs
- 3,409 unique visitors to the VR
- 5,800 YouTube views of posters
- 60,600 visits to our website
- Neutrino 2020 has had a far reach & allowed people to attend who might otherwise have been unable



participants connected from > 65 countries



Thank You, Speakers, Poster Presenters, Participants

- Thank you to all ...
  - 79 speakers
    - also, special thanks to Joe Formaggio and Goran Senjanovic for their outlook talks
  - 532 poster presenters
  - thousands of conference attendees
- Without you, this conference would not have been the success that it was
- Thank you all for your engagement on Slack during the conference. Lots of discussion on the talks and posters!
  - the conference triggered 23,078 messages on Slack over the past 2 weeks
  - included some interesting dialogue about the #future_of_conferences
  - there are some good aspects from Neutrino 2020 that will likely carry over into in-person conferences in the future

Thank You, International Advisory Committee (IAC)

- Superb committee that was highly engaged with formation of the agenda and deliberations on hosting an online conference

Luis Alvarez-Ruso
Alexander Barabash
John Beacom
Laura Baudis
Jun Cao
Amol Dighe
Peter Denton
Scott Dodelson
Yasaman Farzan
Raj Gandhi
Loredana Gastaldo
Andrea Giuliani
Roxanne Guenette
Yoshinari Hayato
Hallsie Reno
Soo-Bong Kim
Alysia Marino
Pedro Ochoa-Ricoux
Gabriel Orebi Gann
Marco Pallavicini
Silvia Pascoli
Mayly Sanchez
Gabriel Orebi Gann
Marco Pallavicini
Silvia Pascoli
Mayly Sanchez
Kate Scholberg
Sunny Seo
David Sinclair
Nigel Smith
Morimitsu Tanimoto
Mariam Tortola
Francesco Vissani
Morgan Wascko
Henry Wong
Elizabeth Worcester
Renata Zukanovich Funchal

Thank You, International Neutrino Commission (INC)

- We look forward to Neutrino 2022 in Seoul, South Korea!

Jenni Adams
Sidney Bludman
Tom Bowles
Arnon Dar
Guido Drexlin
Gary Feldman
Ettore Fiorini
Francis Halzen
Cecilia Jarlskog
Ed Kearns
Toshio Kitagaki
Konrad Kleinknecht
Takashi Kobayashi
John Learned
Manfred Lindner
Ken Long
Bill Louis
Art McDonald
Masayuki Nakahata
Tsuyoshi Nakaya
Vito Palladino
Stephen Parke (chair)
Silvia Pascoli
Herbert Pietschmann
Matts Roos
Norbert Schmitz
Jack Schneps
Yoichiro Suzuki
Francois Vannucci
Daniel Vignaud
Franz von Feilitzsch

Thank You, Local Organizing Committee (LOC)!

- We had a truly exceptional team to pull off an entirely online conference on a very short time scale

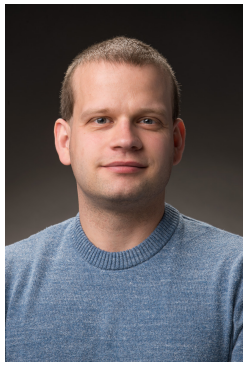




Marco Del Tutto (Fermilab)
Alec Habig (U Minnesota Duluth)
Max Hronek (Fermilab)
Tanaz Mohayai (Fermilab)
Anne Norrick (Fermilab)
Greg Pawloski (U Minnesota Twin Cities)
Fernanda Psihas (Fermilab)
Erica Snider (Fermilab)
Thomas Strauss (Fermilab)
Becky Thompson (Fermilab)
Joseph Zennamo (Fermilab)








Thank You To Our Session Chairs!

André de Gouvêa (Northwestern)
Laura Fields (Fermilab)
Wes Ketchum (Fermilab)
Kate Scholberg (Duke)
Peter Shanahan (Fermilab)

Also Thank You To …

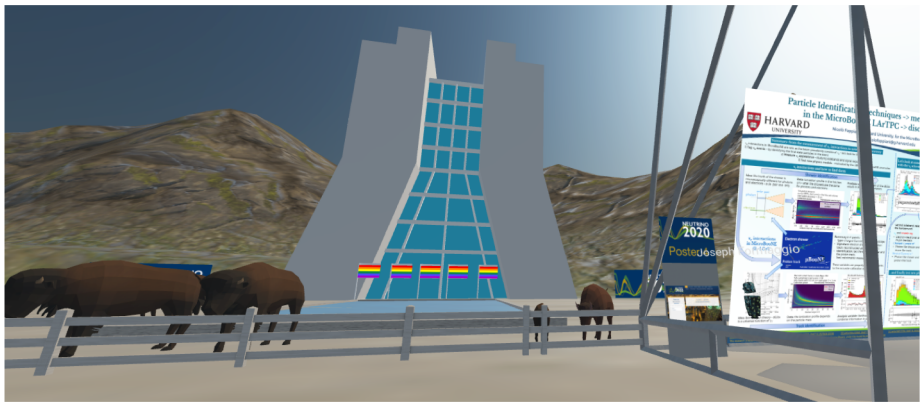
- ZOOM webinar: Farha Bhimji (Fermilab)
  Sheila Cisko (Fermilab)
  Lynn Johnson (Fermilab)
  Ray Pasetes (Fermilab)
  Kurt Riesselmann (Fermilab)
  Liz Sexton-Kennedy (Fermilab)

- Indico: Jon Bakken (Fermilab)
  Penelope Constanta (Fermilab)
  Mike Rosier (Fermilab)
- Graphics/Logos: Diana Brandonisio (Fermilab)
- Word Press: Maura Barone (Fermilab)
- Media:
  Lauren Biron (Fermilab)
- Conference Office:
  Joy Pomillo (Fermilab)
  Melody Saperston (Fermilab)

Virtual Reality

hubs by moz://a

- Marco Del Tutto (Fermilab) designed, built, and supported the VR also thank you to Burt Holzman (Fermilab) for technical support
- Thank you to Mozilla Hubs for the open source software and for their support in getting Hubs set up and customized for this event

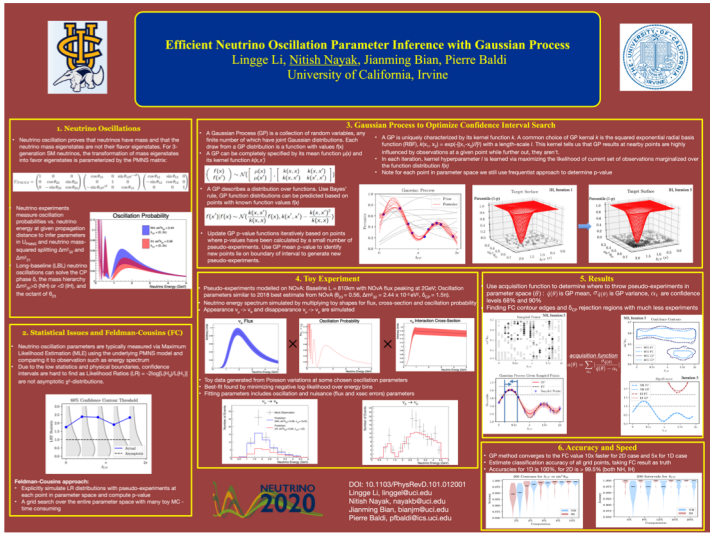


> 3,400 conference attendees visited the VR platform

NEUTRINO 2020

Neutrino Physics and Machine Learning (NPML) Satellite Meeting Lightning Talk Winner

- Congratulations to the best machine learning poster (by participants' vote)
  - Nitish Nayak (UC Irvine): *Efficient Neutrino Oscillation Parameter Inference Using Gaussian Processes* for his innovative ML application in neutrino model fits
  - Nitish's lighting talk: https://indico.slac.stanford.edu/event/377/timetable/#6-efficient-neutrino-oscillati



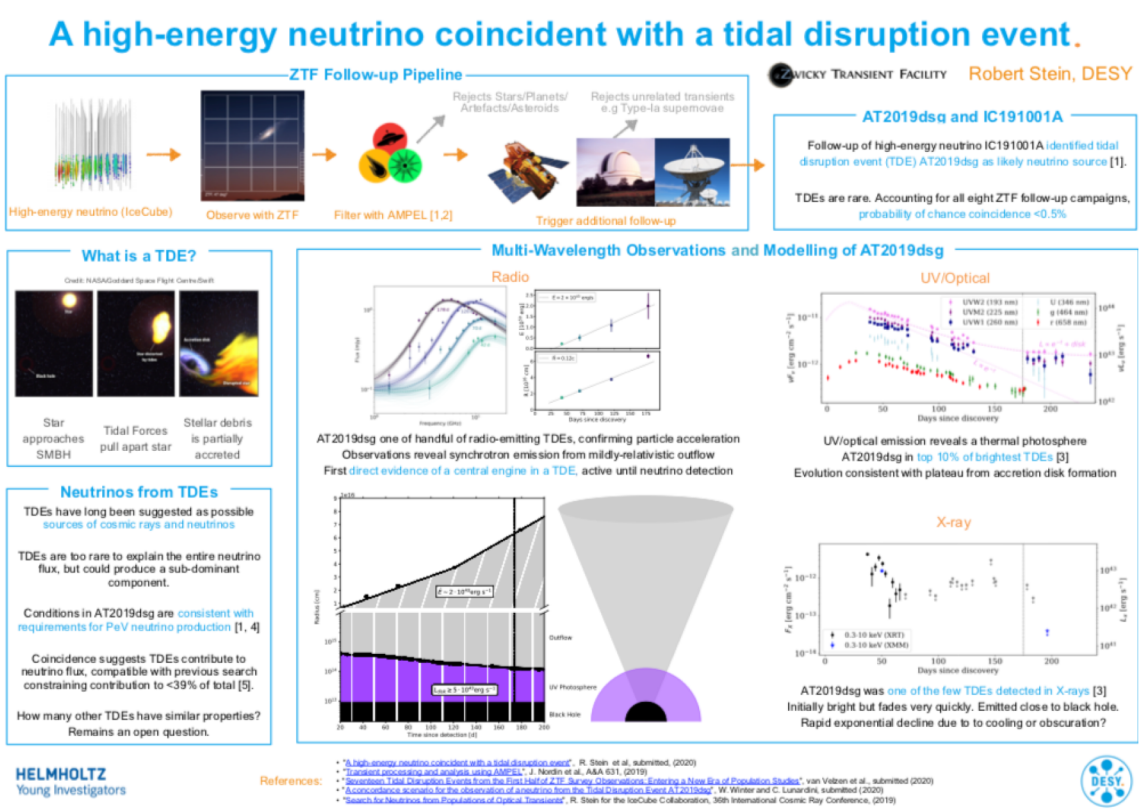
- NPML workshop continues (online) next week July 10-24 https://indico.slac.stanford.edu/event/371/

Neutrino 2020 Poster Session Winners

- The winners were selected by your votes!
- There are 4 winners, one for each poster session
- 786 poster scores entered
- 5,800 YouTube views of posters videos

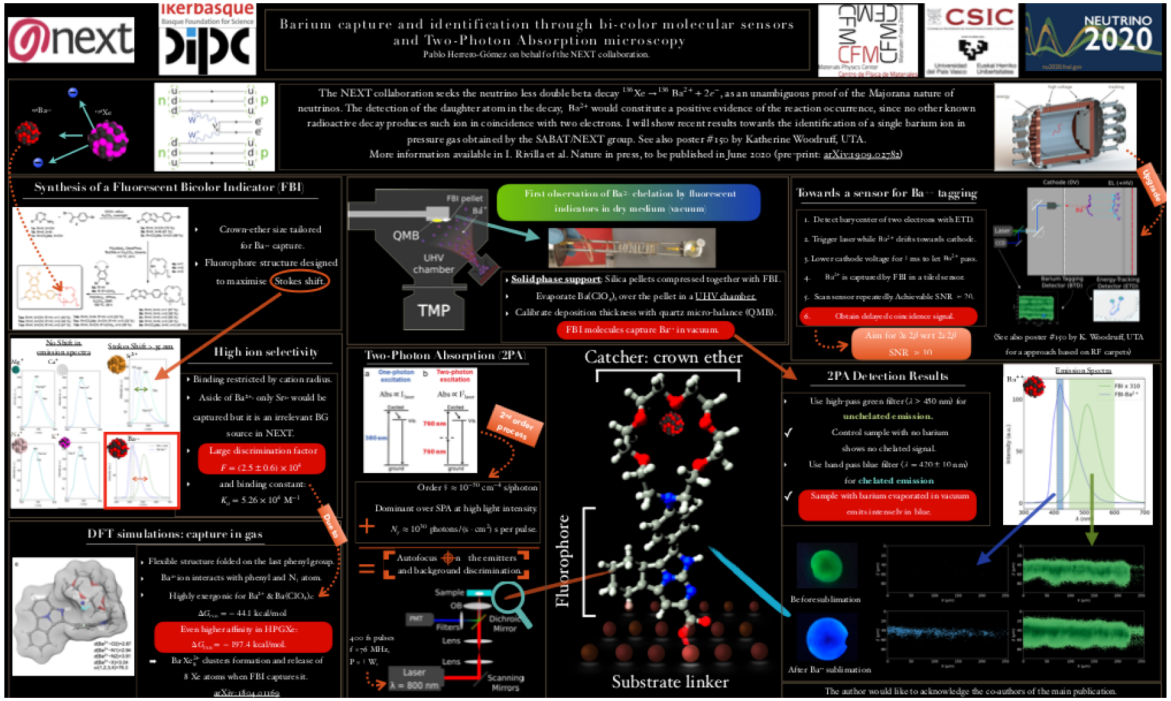
Neutrino 2020 Poster Session Winners

- Congratulations to Poster Session 1 Winner (#347):
  Robert Stein (DESY Zeuthen): *A High Energy Neutrino Coincident with a Tidal Disruption Event*



Neutrino 2020 Poster Session Winners

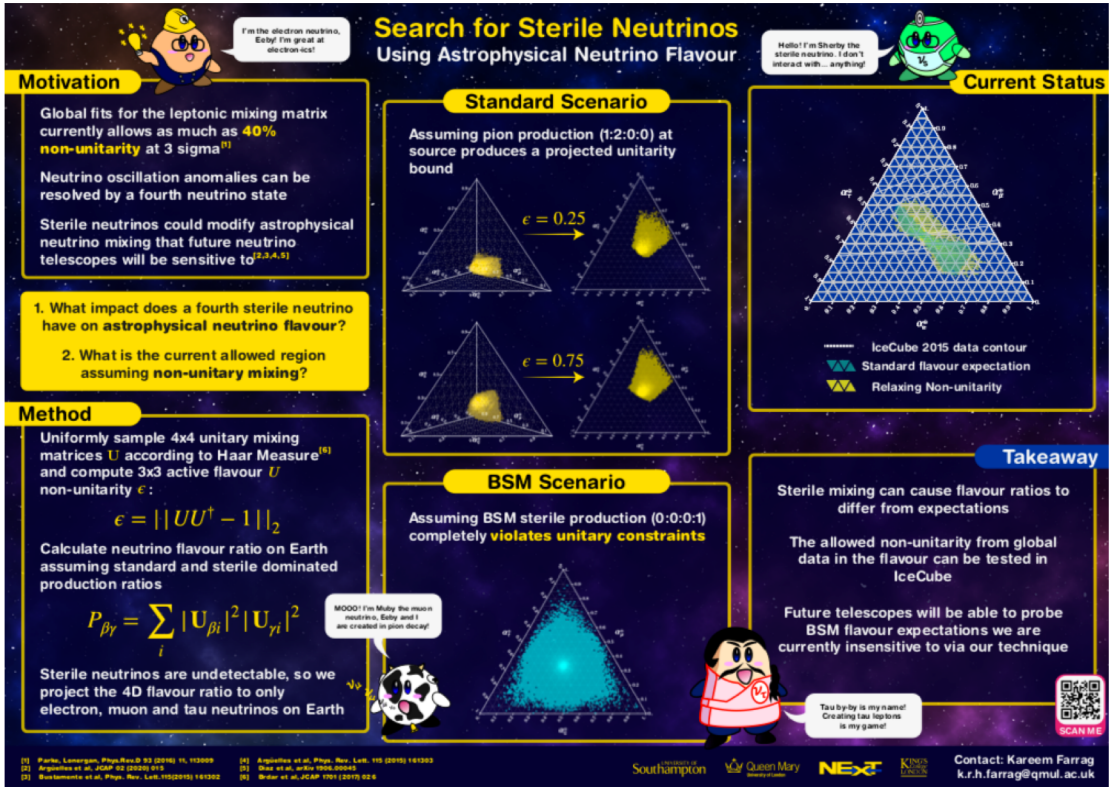
- Congratulations to Poster Session 2 Winner (#193):
  Pablo Herrero Gomez (DIPC) for the NEXT collaboration: *Barium Capture and Identification Through Bi-Color Molecular Sensors and Two-Photon Absorption Microscopy*



with Borja Aparicio (UPV/EHU), Celia Rogero-Blanco (MPC/CSIC), Fernando Cossio (UPV/EHU), Francesc Monrabal (IFIC), Ivan Rivilla De La Cruz (DIPC), J.J. Gomez-Cadenas (DIPC), Zoraida Freixa (UPV/EHU)

Neutrino 2020 Poster Session Winners

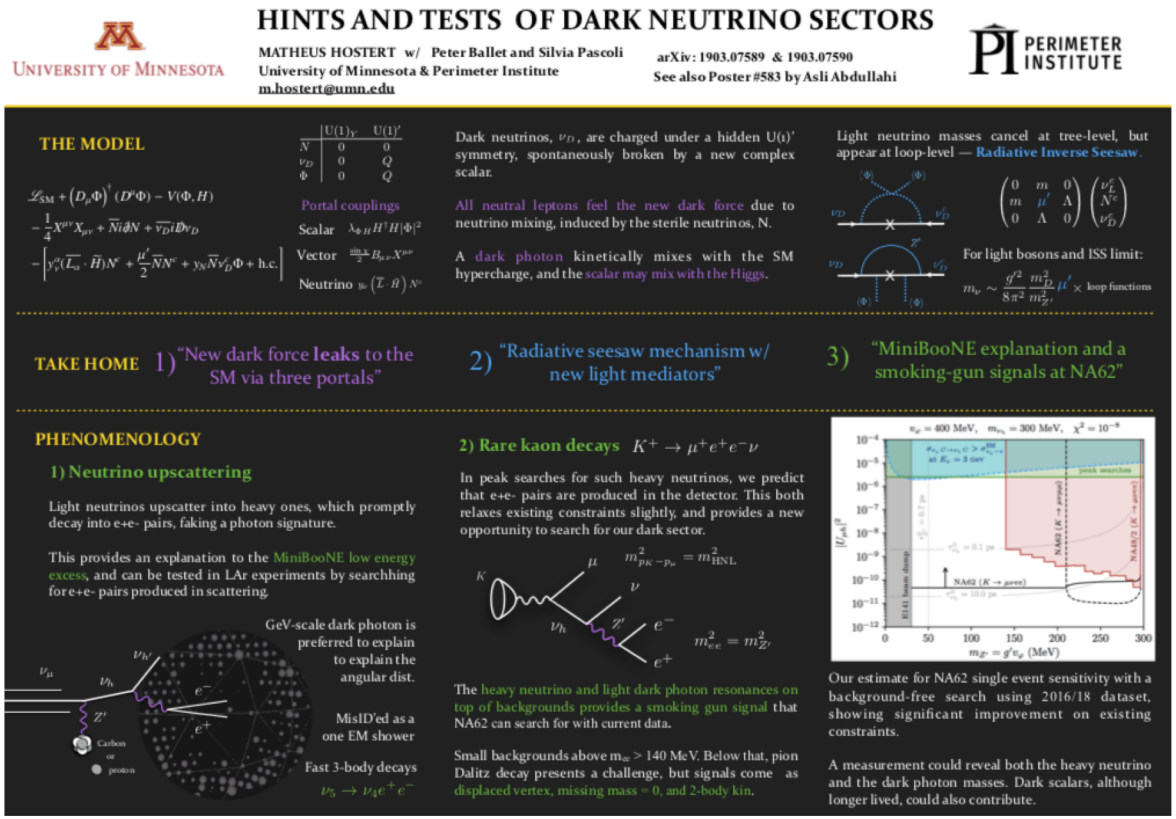
- Congratulations to Poster Session 3 Winner (#495): Kareem Farrag (Queen Mary University of London): *Search for Sterile Neutrinos Using Astrophysical Neutrinos*



with
Carlos Arguelles (MIT), Jordi Salvado (Barcelona), Khandelwal Rishbah (Wisconsin Madison), Shivesh Mandalia (Queen Mary), and Teppei Katori (Queen Mary)

Neutrino 2020 Poster Session Winners

- Congratulations to Poster Session 4 Winner (#44): Matheus Hostert (University of Minnesota): *Hints and Tests of Dark Neutrino Sectors*



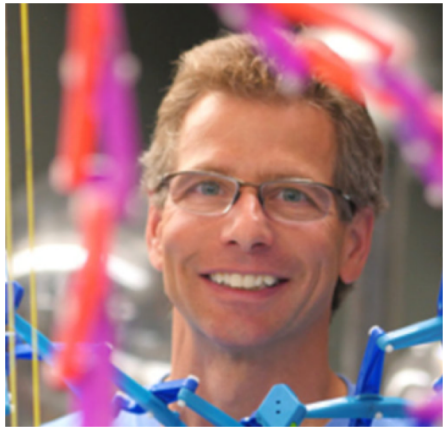
with
Peter Ballet
and Silvia Pascoli
(Perimeter Institute)

Neutrino 2020 Physics Slam

Becky Thompson (Fermilab)

Kirsty Duffy,
Fermilab

Alan Poon,
Berkeley Lab



Sam Sempere
Syracuse University

- This will be the closing event of the conference
  - 3 presenters will tell the world about neutrino research in 10 minutes or less using whatever (virtual) means they can think of in the hopes of becoming Slam Champion
- July 2 at 4:30-5:30 CDT (UTC-5)
- Sponsored by Chicago Council on Science and Technology (C2ST) and Fermilab
- Registration is free but required: https://www.c2st.org/event/neutrino-2020-physics-slam/

After the Conference

- Neutrino 2020 website, poster portal, poster videos, and recordings of all plenary talks will remain available online and will be permanently archived
- Conference content will be additionally archived to Zenodo
- We will also post the complete list of conference participants on the conference website
- The Virtual Reality will remain open through the weekend

On behalf of the Co-Chairs and
the Neutrino 2020 Local Organizing Committee

Thank You All!

The End