

FERMILAB-SLIDES-18-063-T

International Neutrino Commission Report & Neutrino 2018

Stephen Parke
INC chair
parke@fnal.gov

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George Marx

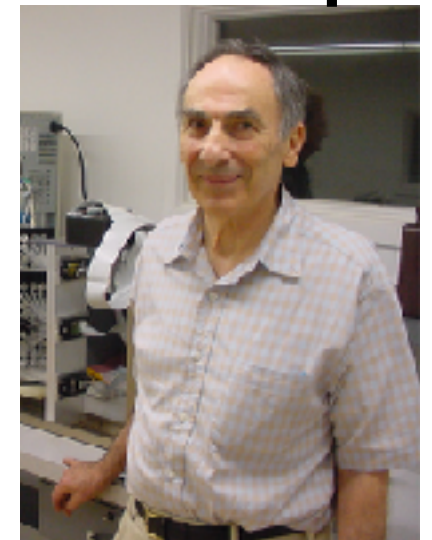
Previous Neutrino Conferences:

Conference	Location	Chair	No. Participants
1. NEUTRINO 1972	Balaton, Hungary	George Marx*	139
2. NEUTRINO 1974	Philadelphia,PA, USA	Sidney Bludman	~100
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5. NEUTRINO 1977	Elbrus, USSR	M. Markov*, A.Tavkhelidze*, G. Zatsepin*	209
6. NEUTRINO 1978	Lafayette, IN, USA	Earle Fowler*	264
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8. NEUTRINO 1980	Erice, Italy	<u>Ettore Fiorini</u>	~100
9. NEUTRINO 1981	Maui,Hawaii,USA	Vincent Peterson *	191
10. NEUTRINO 1982	Balaton, Hungary	Deszo Kiss*, George Marx*	199
11. NEUTRINO 1984	Nordkirchen Germany	Konrad Kleinknecht	232
12. NEUTRINO 1986	Sendai, Japan	Toshio Kitagaki	230
13. NEUTRINO 1988	Boston, MA, USA	Jacob Schneps	334
14. NEUTRINO 1990	Geneva, Switzerland	Klaus Winter	339
15. NEUTRINO 1992	Granada, Spain	Angel Morales*	261
16. NEUTRINO 1994	Eilat, Israel	Arnon Dar	288
17. NEUTRINO 1996	Helsinki, Finland	Matts Roos	308
18. NEUTRINO 1998	Takayama, Japan	Yoichiro Suzuki, Yoji Totsuka*	339
19. NEUTRINO 2000	Sudbury, Canada	Art McDonald	395
20. NEUTRINO 2002	Munich, Germany	Franz v. Feilitzsch, Norbert Schmitz	410
21. NEUTRINO 2004	Paris, France	François Vannucci, Daniel Vignaud	520
22. NEUTRINO 2006	Santa Fe, NM, USA	Thomas Bowles	~450
23. NEUTRINO 2008	Christchurch, N. Zealand	J. Adams, F. Halzen, S. Parke	294
24. NEUTRINO 2010	Athens, Greece	<u>George Tzanakos*</u>	455
25. NEUTRINO 2012	Kyoto, Japan	T. Kobayashi, M. Nakahata, T.Nakaya,	599
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27. NEUTRINO 2016 London, UK Ken Long, Silvia Pascoli 700

Jack Schneps





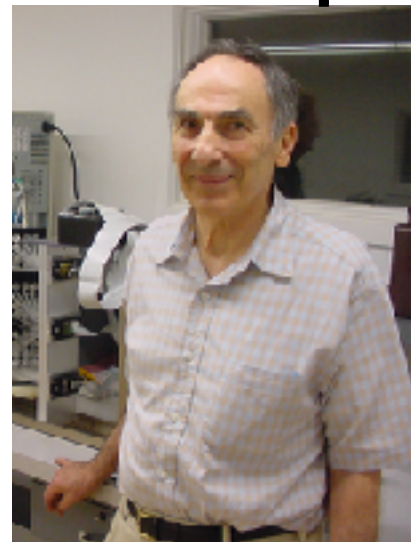
George Marx

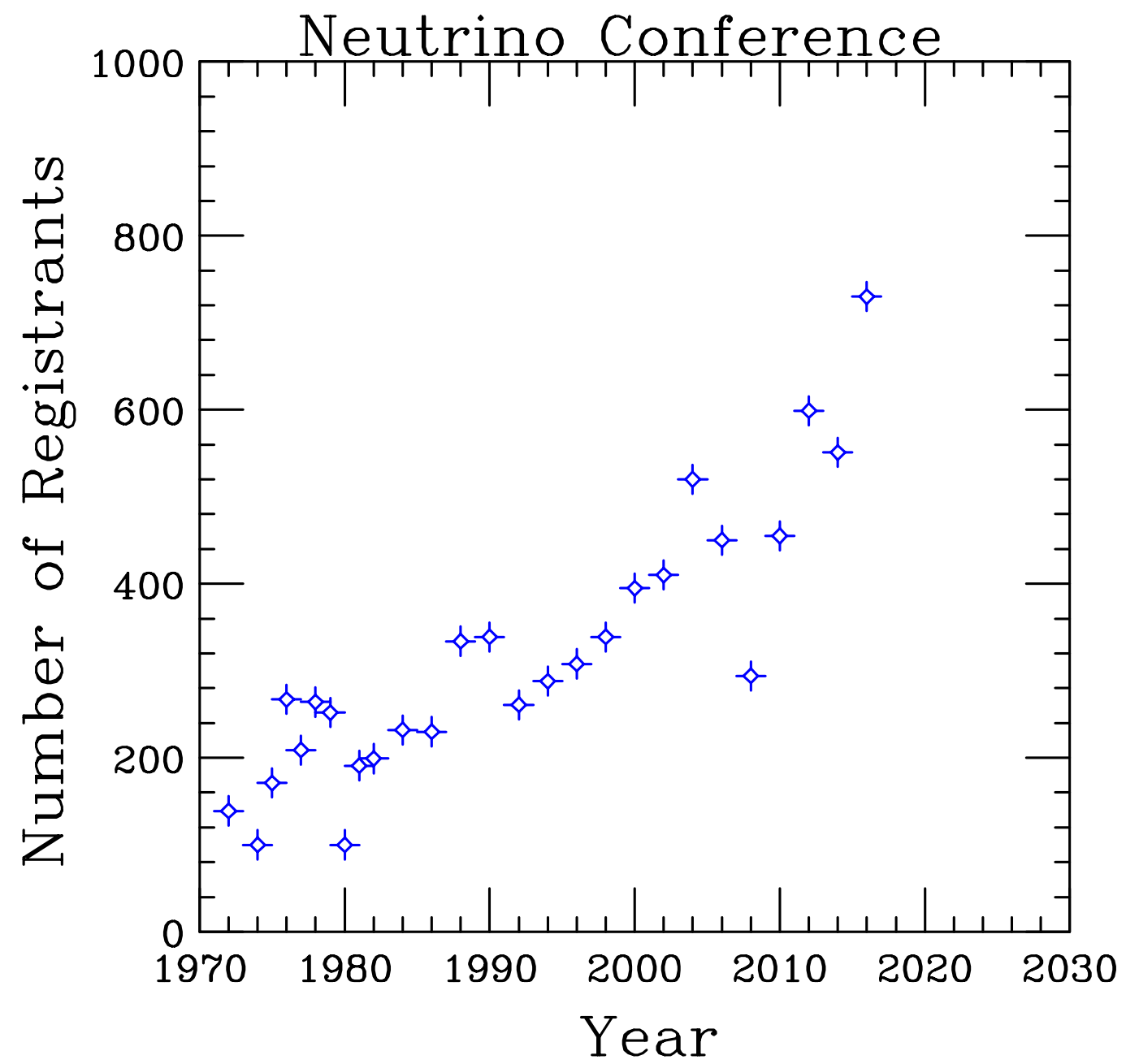
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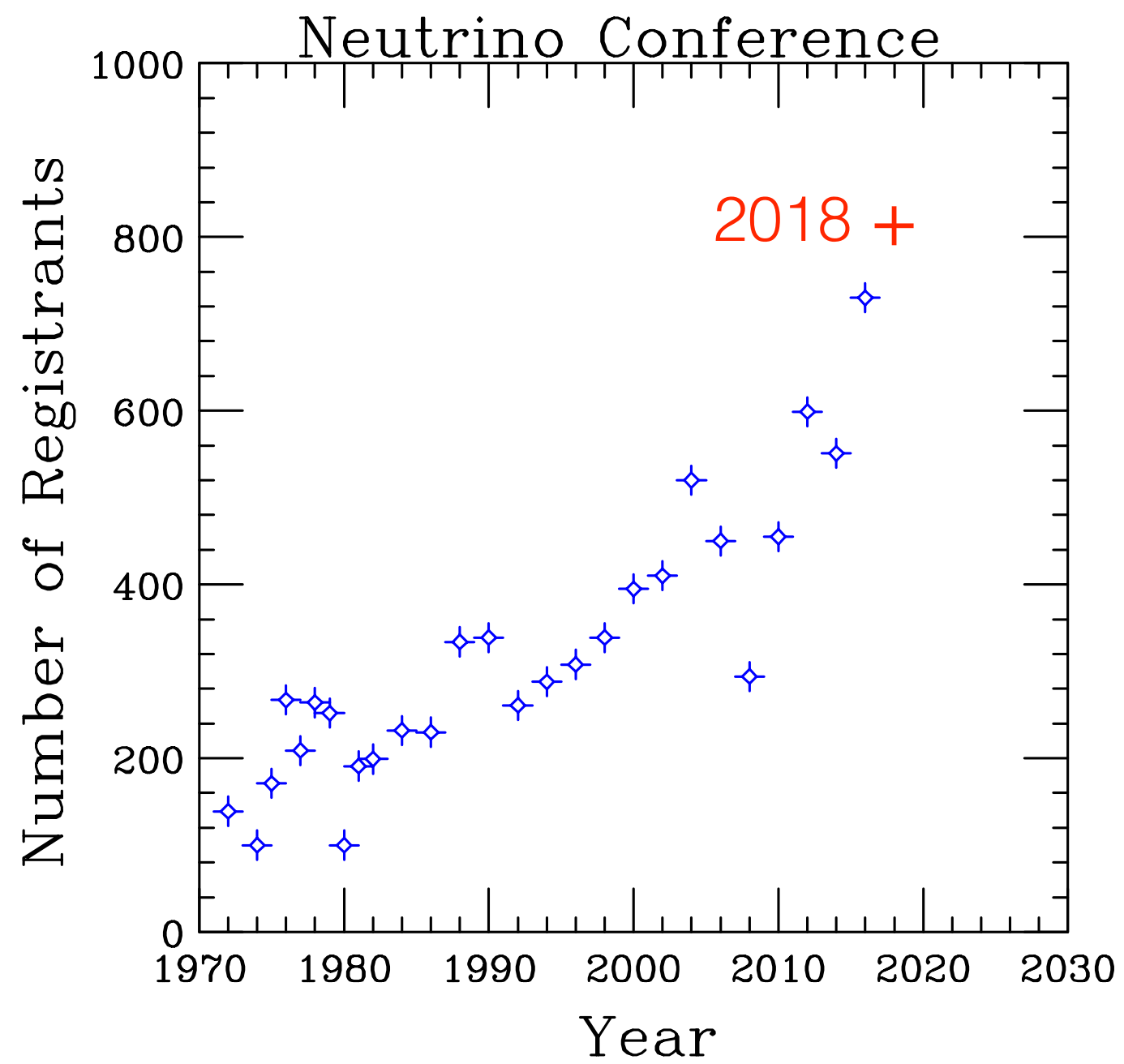
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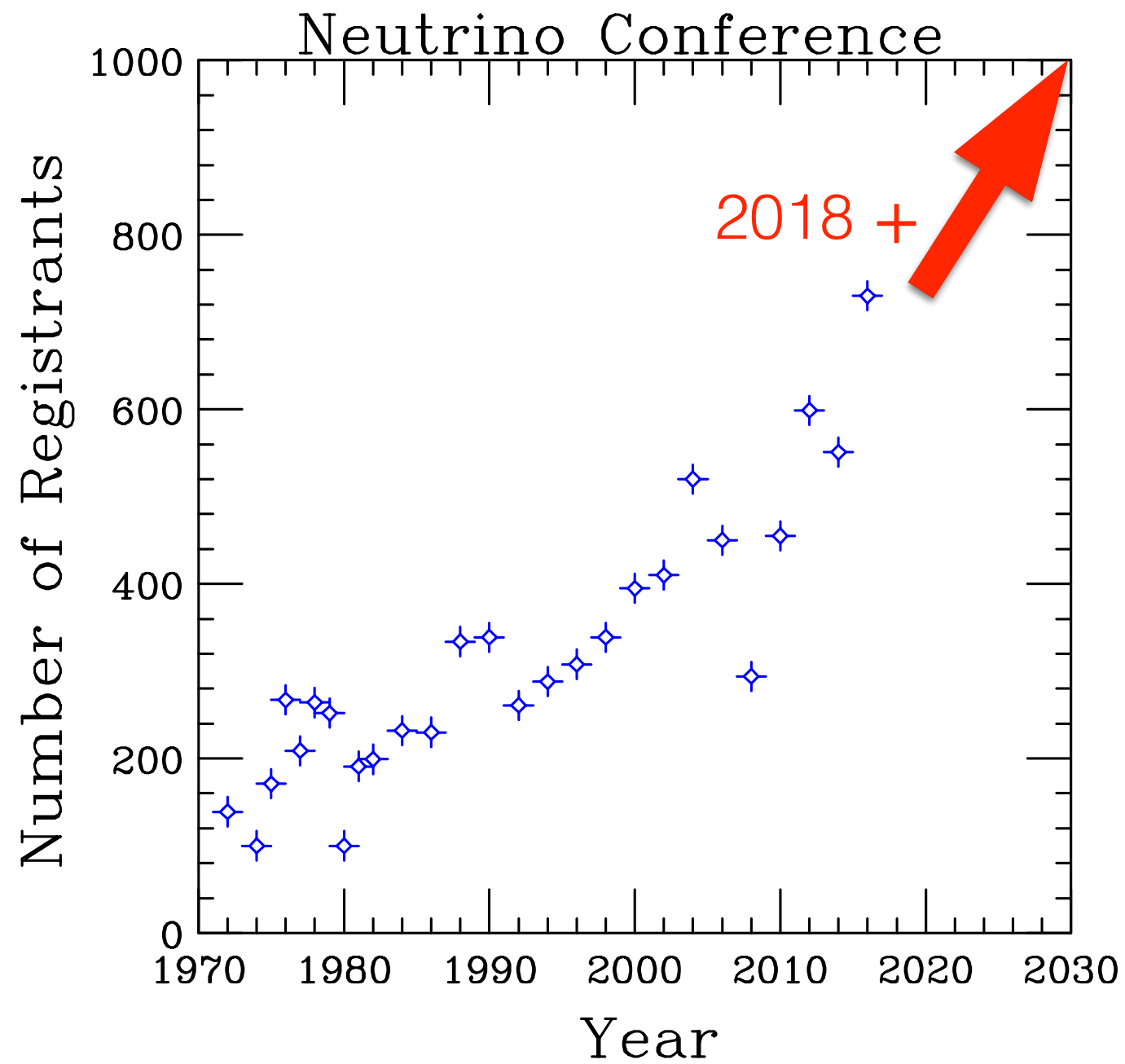
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Jack Schneps









1000 Registrants by the 100th Birthday (2030) !!!

Proceedings:

1) Record of Conference

2) Citeable Contribution

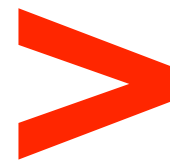
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Hypothesis

**Person-Hours to produce
traditional Proceedings
by authors, editors, etc**



**Person-Hours
of use !**

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**Person-Hours
of use !**

and

**Presentation Slides (with audio) are more representative
of what happened
at Conference than traditional proceedings**

Proceedings

Conference webpage not sufficient: (they disappear !!!)

Proceedings

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unique DOI # for the slides of each talk

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If a presenter wishes to produce and upload a typeset traditional proceedings to the arXiv, the conference will link this manuscript to the conference proceedings if notified of the arXiv number before Saturday, 1st September 2018. **Note that this is purely voluntarily !**

WIN2019 , 3-8 June 2019 Bari, Italy

Conference venue



“Villa Romanazzi Carducci”



Bari is located on the lower Adriatic sea

WIN2019. The 27th International Workshop on Weak Interactions and Neutrinos.

3-8 June 2019 *Bari*
Europe/Rome timezone

WIN2019. The 27th International Workshop on Weak Interactions and Neutrinos.

Home



<https://agenda.infn.it/conferenceDisplay.py?confId=13938>

Local organizing Committee Chair:
Gabriella Catanesi
Gabriella.Catanesi@cern.ch

then 2021 Minneapolis

Potassium: 0.01% K^{40}



358 mg / 100gm



312 mg / 100gm



485 mg / 100gm

beta decay 89% (Ca) and electron capture 11% (Ar)

International Neutrino Commission: (all passed chairs)

meet Wednesday, June 6, 12:40-14:30

Members at Meeting:

Ettore Fiorini (1980), INFN - Sezione di Milano Bicocca

John Learned (1981), Wailea Hawaii

Jacob Schneps (1988), Tufts University

Yoichiro Suzuki (1998), ICRR Tokyo

Art McDonald (2000), Queen's University

Norbert Schmitz (2002), Munich

William Louis (2006), Los Alamos Nat. Lab.

Stephen Parke (2008) [Chair], FermiLab

Gary Feldman (2014), Harvard University

Ken Long (2016), Imperial College

Guido Drexlin (2018), Karlsruhe Institute of Technology

Manfred Lindner (2018), Max Planck-Heidelberg

Vittorio Palladino (WIN), INFN - Sezione di Napoli

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Ken Long (2016), Imperial College
Guido Drexlin (2018), Karlsruhe Institute of Technology
Manfred Lindner (2018), Max Planck-Heidelberg
Vittorio Palladino (WIN), INFN - Sezione di Napoli

Agenda for 2018 Meeting:

Open Section:

Report of Nu2018 - Heidelberg (7 mins)
Update for Nu2020 - ChicagoLand (3 mins)
Update for Nu2022 - Seoul (3 mins)

Proposals for 2024 in Asia:

Italy (Milano) (15 mins)
Spain (Valencia) (15 mins)

Expressions of Interest for 2026 and beyond:
(< 5 mins each):

2026 America's: Irvine, Virginia Tech, Brazil
2028 Asia: China, Vietnam
2030 Europe

Closed Session:

Decision on 2024.

Any other business

Future Neutrino Conferences:

Future Neutrino Conferences:

- **2020 Chicago**

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- **2022 Seoul**

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- **2024 Milano / Valencia**

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Future Neutrino Conferences:

Chiara Brofferio & Gioacchino Ranucci

- **2020 Chicago**

- **2022 Seoul**



- **2024**  **Milano** / **Valencia**

- **2026 Irvine / Rio / Virginia Tech**

- **2028 Guangzhou / ...**

- **2030 Europe**

Neutrino 2020

ChicagoLand

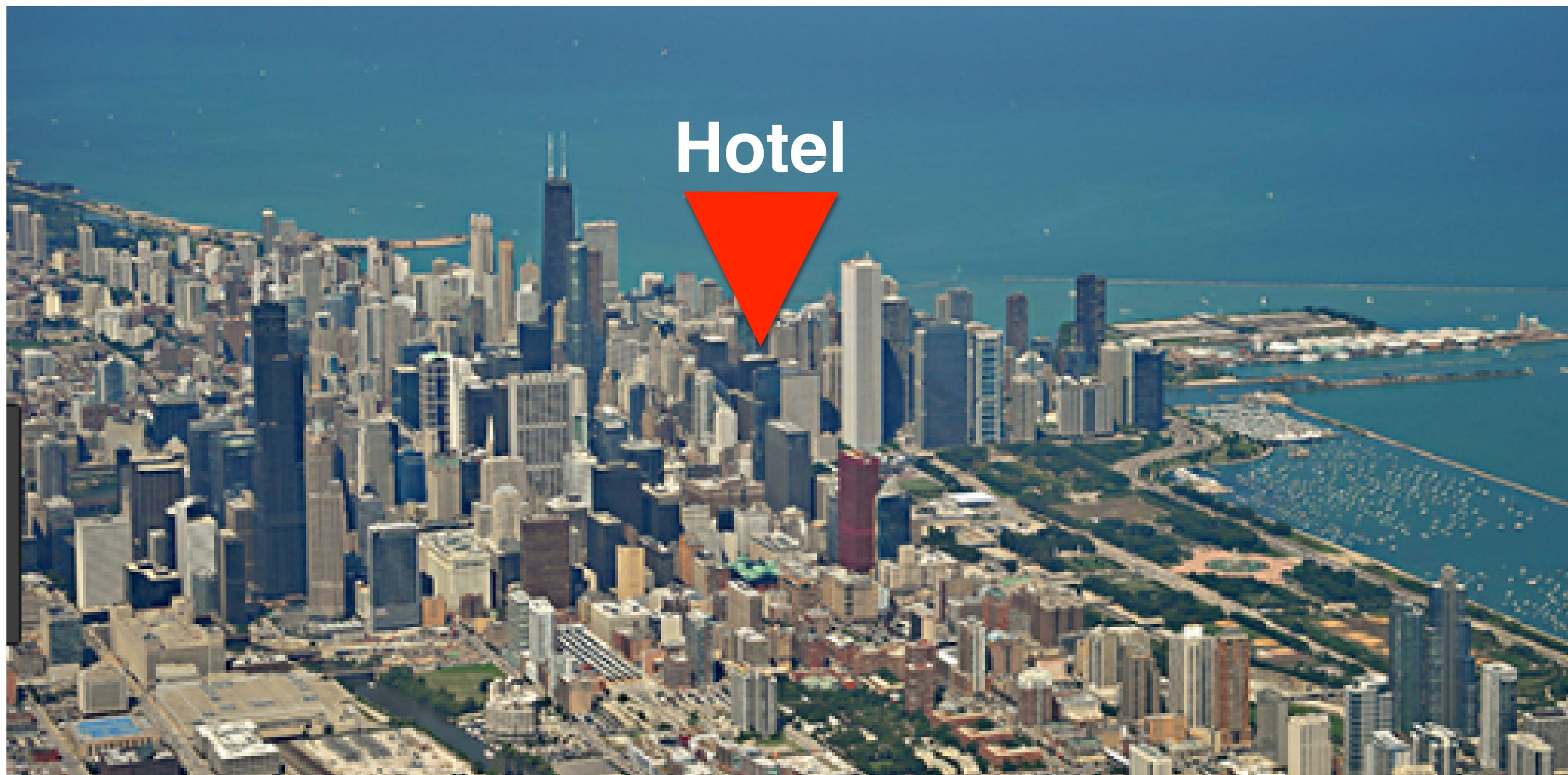
June 21-27, 2020



Neutrino 2020

ChicagoLand

June 21-27, 2020



Scientific

A word cloud featuring the phrase "thank you" in numerous languages. The words are arranged in a circular pattern, with "thank you" being the largest and most central. Other prominent words include "gracias", "danke", "obrigado", and "merci". The colors of the words vary, including red, green, blue, yellow, and orange. The background is white.

thank you

gracias

danke

obrigado

merci

спасибо

teşekkür ederim

ngiyabonga

謝謝

dank je

tapadh leat

moichchakkeram

go raibh maith agat

arigatō

lakk

dakujem

мерси

ευχαριστώ

grazie

terima kasih

감사합니다

sukriya

kop khun krap

sagolun

dziękuję

hvala

mauruu

bedankt



- **You the Participants (~800+)**



- **You the Participants (~800+)**
- **Scientific Speakers (~80+)**
(and experiments)



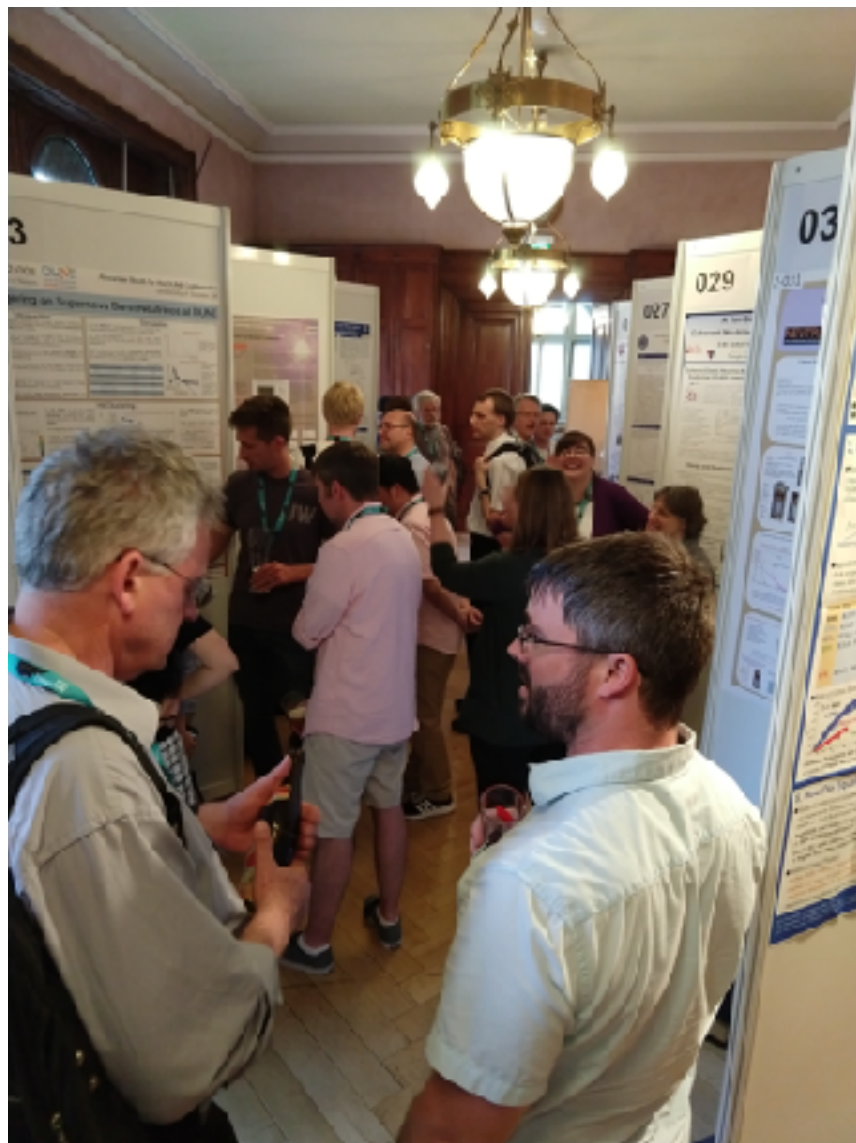
- **You the Participants (~800+)**

- **Scientific Speakers (~80+)**
(and experiments)

**excellent candidates
for IAC for 2020**



- **You the Participants (~800+)**



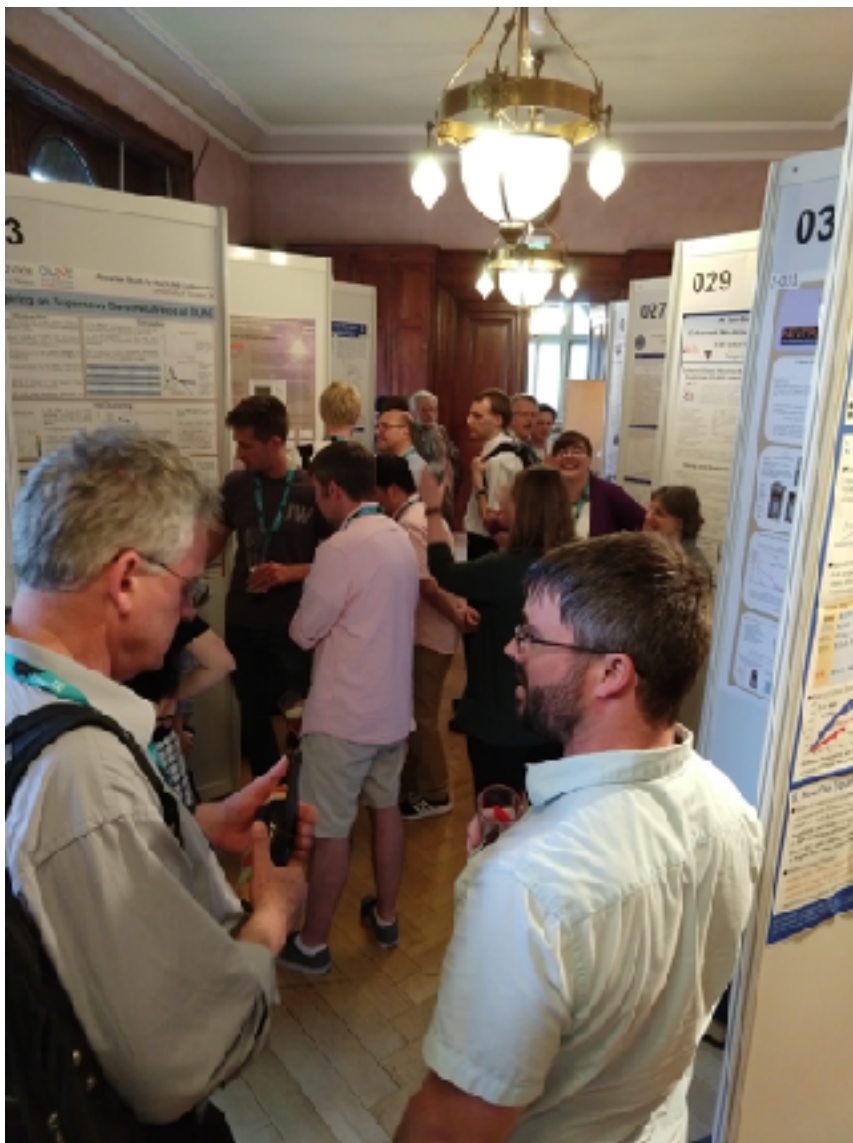
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(and experiments)

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- **Poster Presenters (~400+)**



- **You the Participants (~800+)**



- **Scientific Speakers (~80+)**
(and experiments)

**excellent candidates
for IAC for 2020**

- **Poster Presenters (~400+)**
important and fantastic

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Former conference chairs and thereby custodians of the Neutrino conference series

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C. Jarlskog	Lund University
E. Kearns	Boston University
T. Kitagaki	Tohoku University
K. Kleinknecht	Johannes Gutenberg-Universität Mainz
T. Kobayashi	High Energy Accelerator Research Organization (KEK)
J.G. Learned	University of Hawaii, Manoa
K. Long	Imperial College London/STFC
W. Louis	Los Alamos National Laboratory
A.B. McDonald	Queen's University
M. Nakahata	University of Tokyo Institute for Cosmic Ray Research
T. Nakaya	Kyoto University
V. Palladino	Istituto Nazionale di Fisica Nucleare – Sezione di Napoli
S. Parke (chair)	Fermi National Accelerator Laboratory
S. Pascoli	Durham University/IPPP
H. Pietschmann	University of Vienna
M. Roos	University of Helsinki
N. Schmitz	Max-Planck-Institut für Physik
J. Schneps	Tufts University
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F. Vannucci	University of Paris VII
D. Vignaud	University of Paris VII
F. von Feilitzsch	TU München

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Y. Hayato	Kamioka Observatory, ICRR, University of Tokyo
S.-B. Kim	Seoul National University
Y. Kuno	Osaka University



Speakers

M. Mezzetto	Istituto Nazionale di Fisica Nucleare – Sezione di Padova
A. Pilaftsis	University of Manchester
G.G. Raffelt	Max-Planck-Institut für Physik
M.C. Sanchez	Iowa State University
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Y.Y.Y. Wong	University of New South Wales
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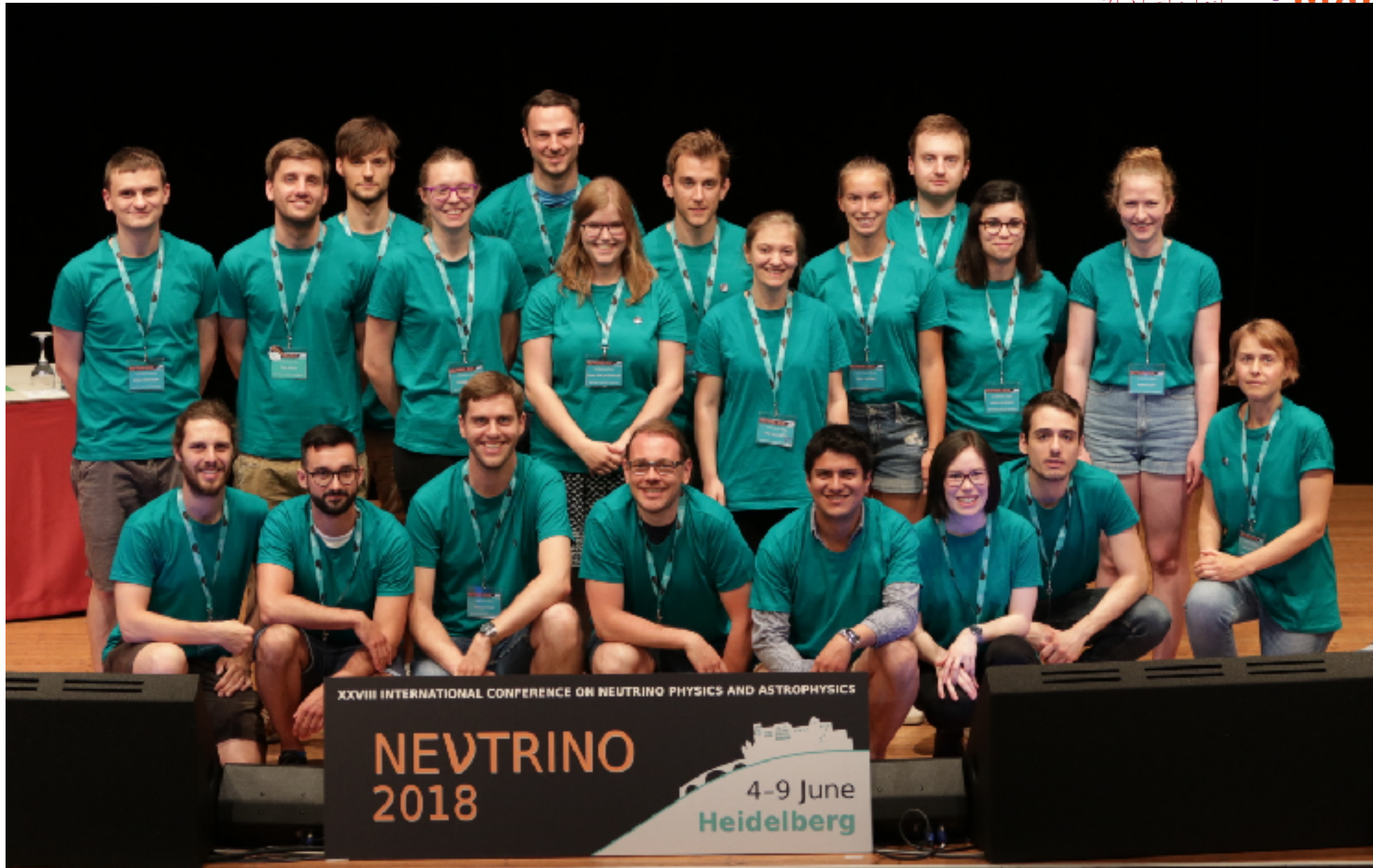
A word cloud featuring the phrase "Thank You" in numerous languages. The words are arranged in a circular pattern, with "thank you" in large red letters at the center. Other prominent words include "gracias" in green, "danke" in blue, "merci" in orange, and "obrigado" in green. Smaller words like "dank je", "teşekkür ederim", "spasibo", "dziękuje", "sukriya", "kop khun krap", "arigato", "takk", "dakujem", "merci", "mochchakkeram", "go raibh maith agat", "sagolun", "hvala", "mauruuru", "bedankt", "s", "ngjajabunga", "ευχαριστώ", "감사합니다", "merci", "dank je", "teşekkür ederim", "spasibo", "dziękuje", "sukriya", "kop khun krap", "arigato", "takk", "dakujem", "merci", "mochchakkeram", "go raibh maith agat", "sagolun", "hvala", "mauruuru", "bedankt", "s", "ngjajabunga", "ευχαριστώ", "감사합니다" are also visible. The colors of the words vary, including red, green, blue, orange, yellow, and purple.

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