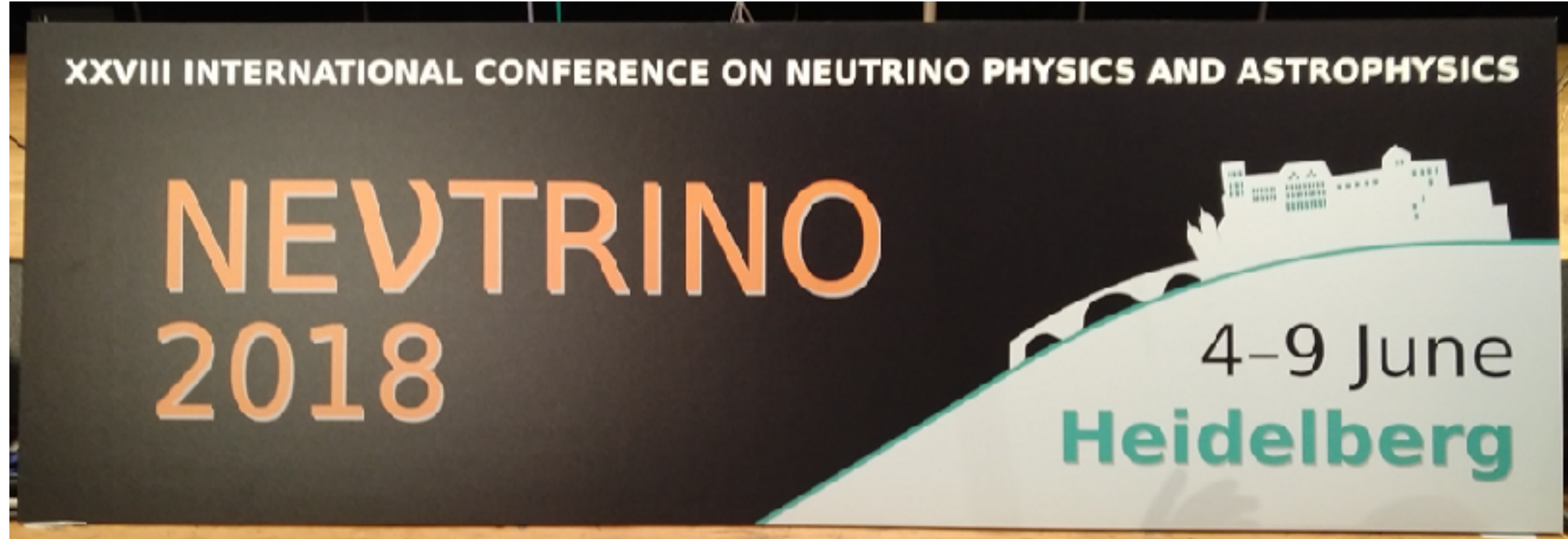


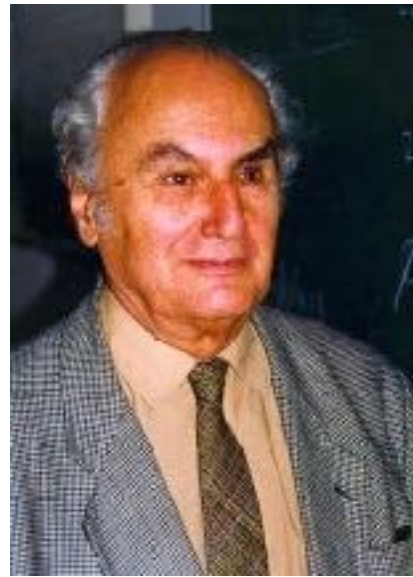


# International Neutrino Commission Report & Neutrino 2018

Stephen Parke  
INC chair  
[parke@fnal.gov](mailto:parke@fnal.gov)

F $\nu$ AL





George Marx

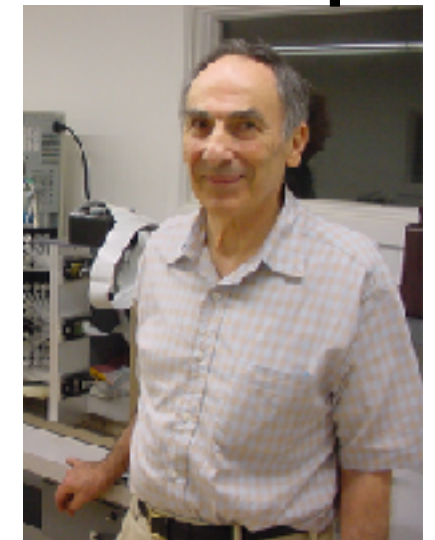
# Previous Neutrino Conferences:

| Conference        | Location                 | Chair                                    | No. Participants |
|-------------------|--------------------------|------------------------------------------|------------------|
| 1. NEUTRINO 1972  | Balaton, Hungary         | George Marx*                             | 139              |
| 2. NEUTRINO 1974  | Philadelphia,PA, USA     | Sidney Bludman                           | ~100             |
| 3. NEUTRINO 1975  | Balaton, Hungary         | George Marx *                            | 171              |
| 4. NEUTRINO 1976  | Aachen, Germany          | Helmut Faissner*                         | 267              |
| 5. NEUTRINO 1977  | Elbrus, USSR             | M. Markov*, A.Tavkhelidze*, G. Zatsepin* | 209              |
| 6. NEUTRINO 1978  | Lafayette, IN, USA       | Earle Fowler*                            | 264              |
| 7. NEUTRINO 1979  | Bergen, Norway           | Cecilia Jarlskog                         | 252              |
| 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              |
| 26. NEUTRINO 2014 | Boston, MA, USA          | Gary Feldman, Ed Kearns                  | 551              |

27. NEUTRINO 2016 London, UK Ken Long, Silvia Pascoli 700

sp

Jack Schneps





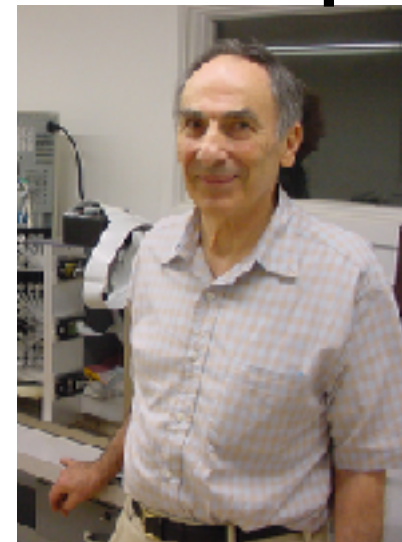
George Marx

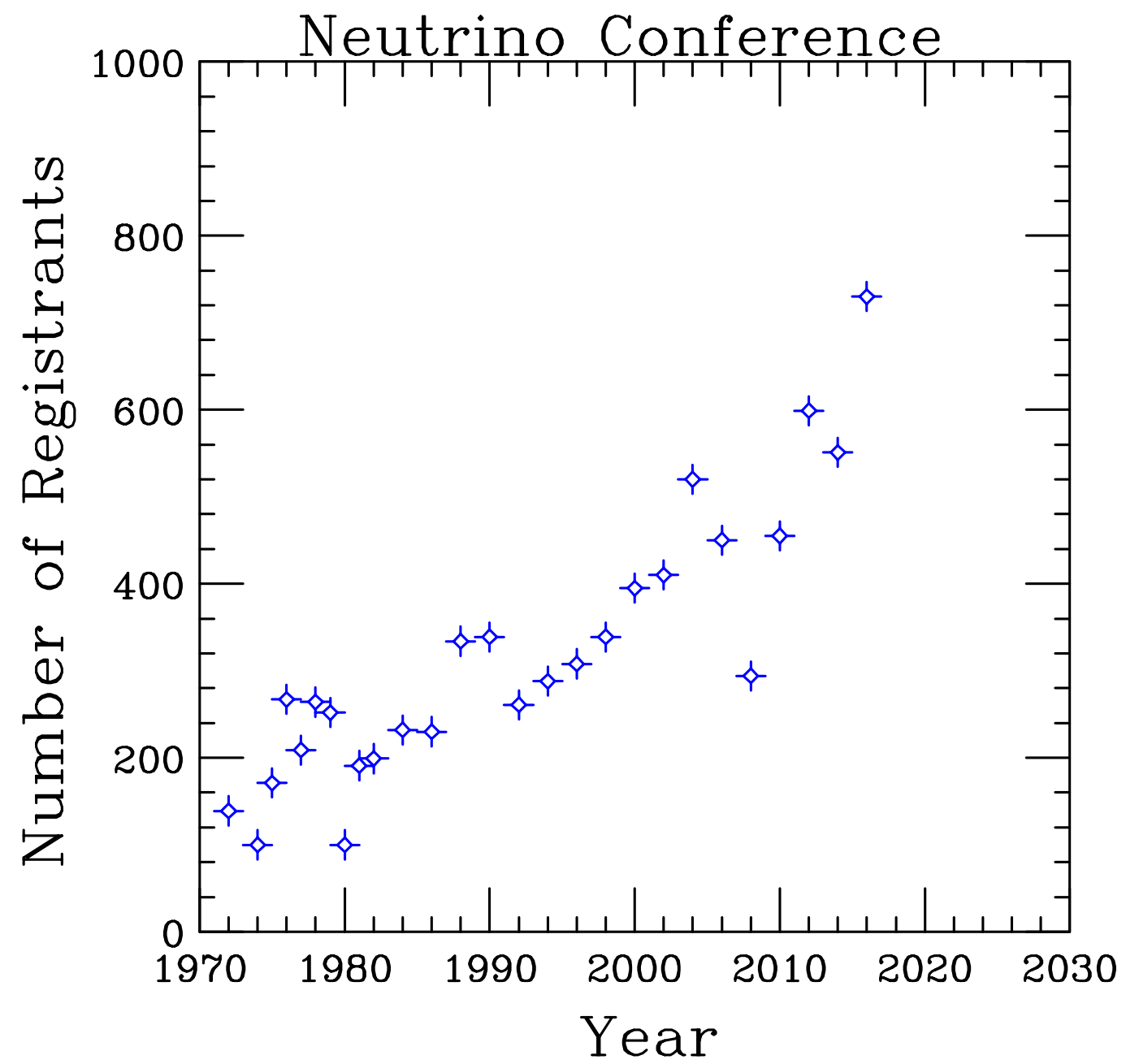
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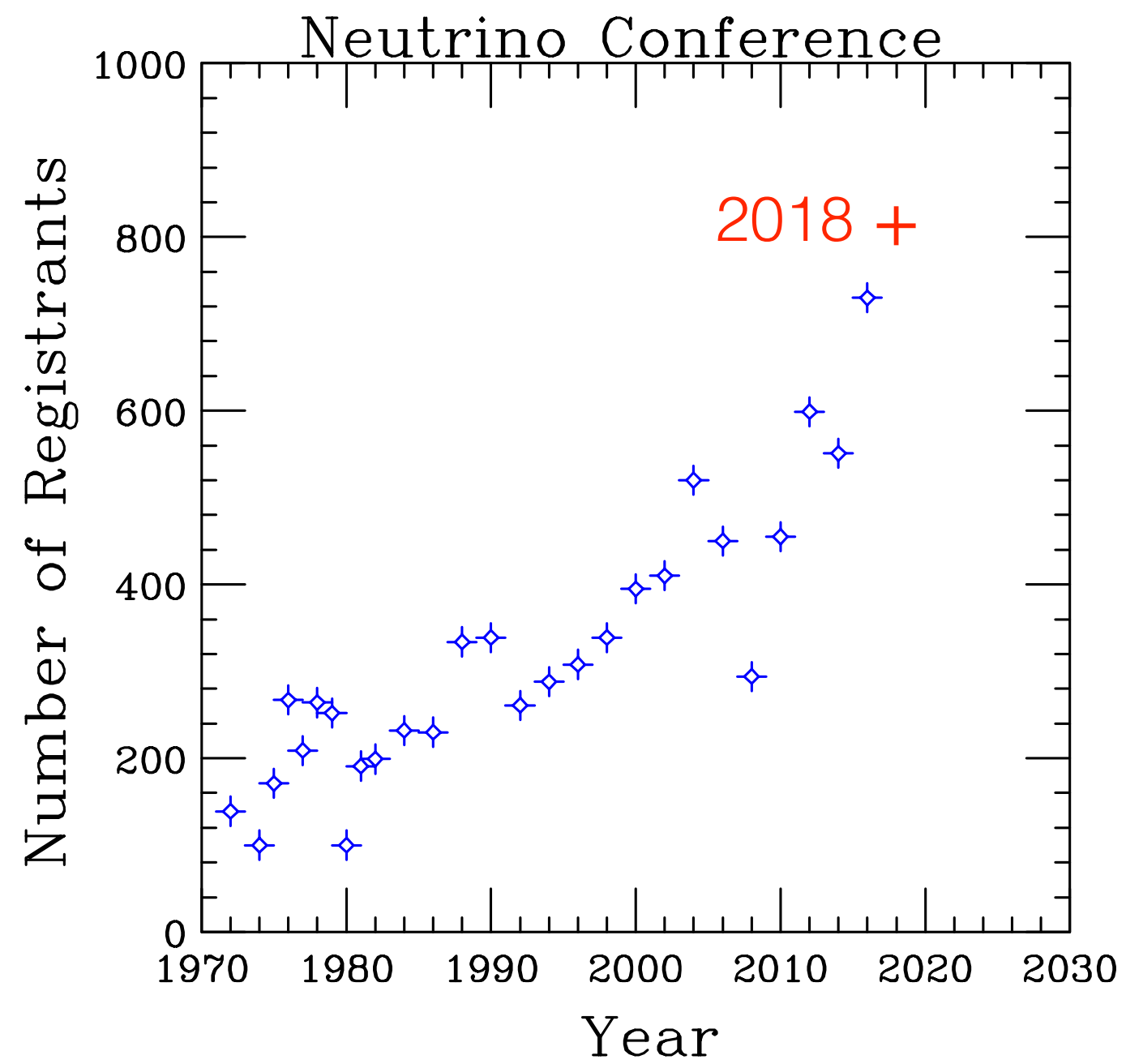
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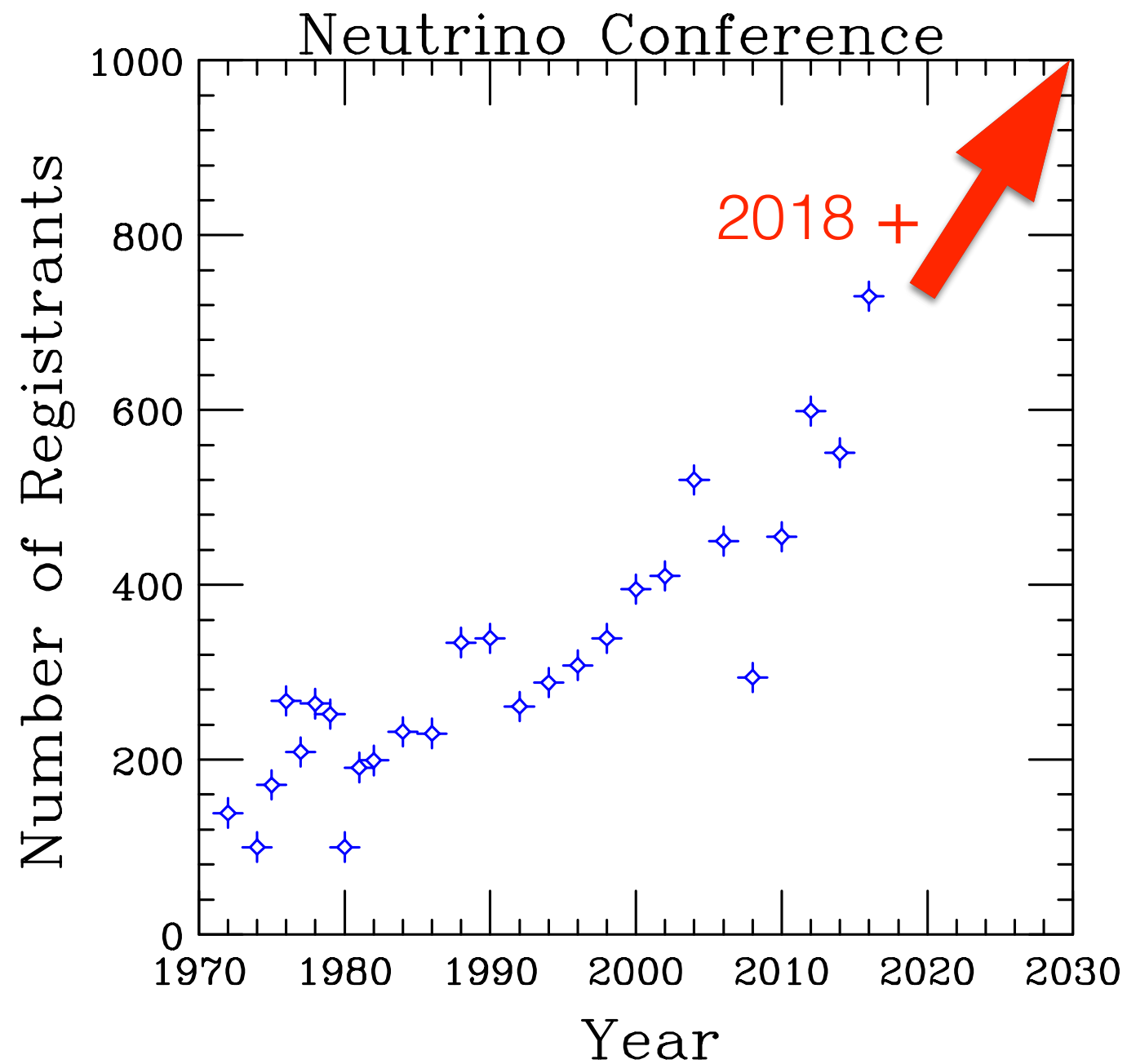
sp

Jack Schneps









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

# **Proceedings:**

**1) Record of Conference**

**2) Citeable Contribution**

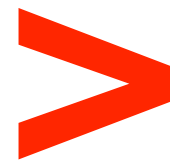
# Proceedings:

**1) Record of Conference**

**2) Citeable Contribution**

Hypothesis

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



**Person-Hours  
of use !**

# Proceedings:

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**2) Citeable Contribution**

Hypothesis

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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

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

**zenodo.org**



unique DOI # for the slides of each talk

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**Thx to Heath O'Connell, Fermilab, for helping reach this solution!**

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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](mailto: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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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

## **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:**

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- **2020 Chicago**

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- **2022 Seoul**

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- **2020 Chicago**
- **2022 Seoul**
- **2024 Milano / Valencia**
- **2026 Irvine / Rio / Virginia Tech**
- **2028 Guangzhou / ...**
- **2030 Europe**

# 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**

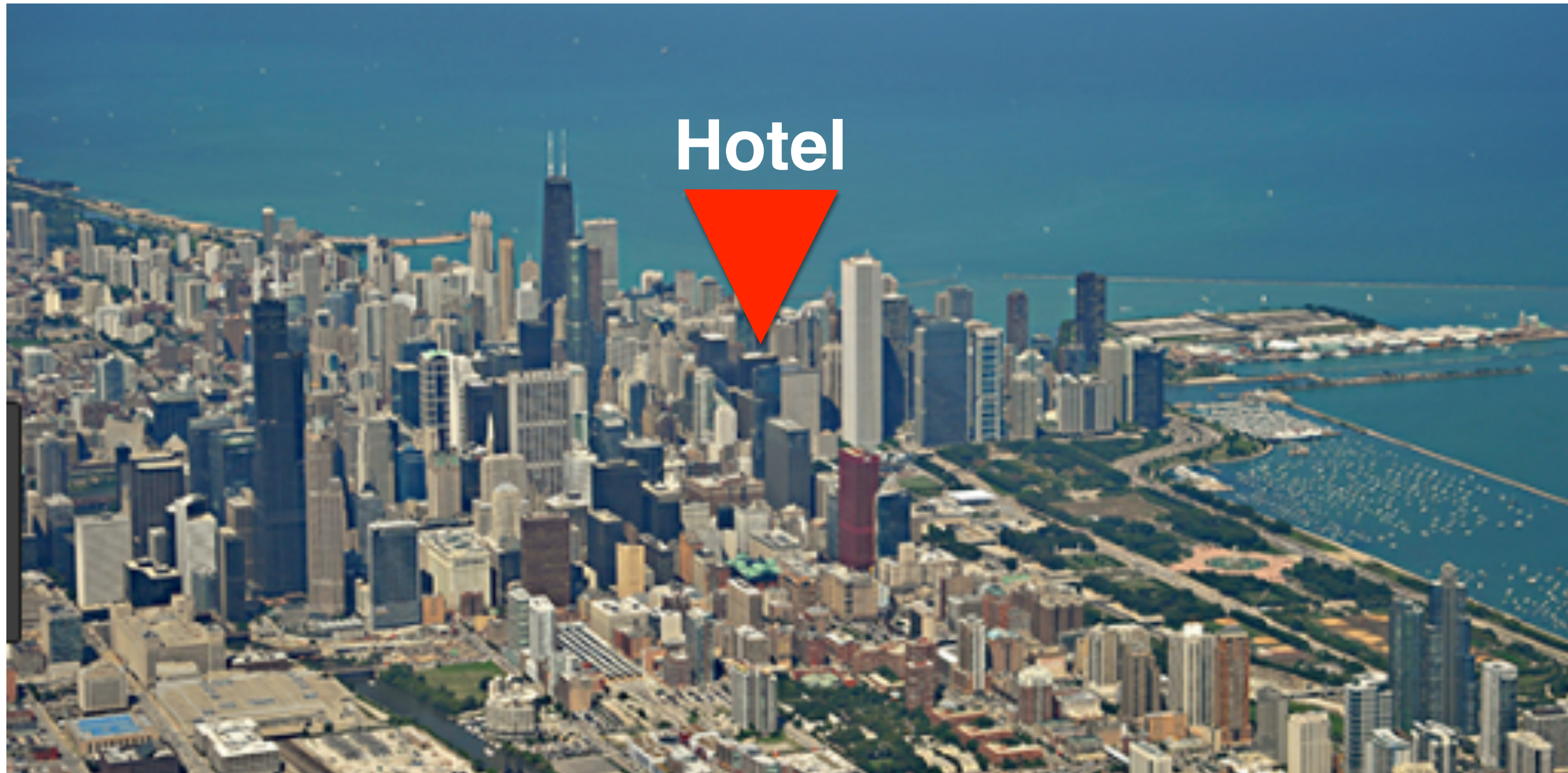
### **June 21-27, 2020**



# **Neutrino 2020**

## **ChicagoLand**

### **June 21-27, 2020**



**Hotel**

# Scientific

спасибо  
danke 謝謝  
ngiyabonga  
teşekkür ederim  
tapadh leat  
moichchakkeram  
go raibh maith agat  
arigatō  
takk  
dakujem  
merci  
ευχαριστώ  
grazie  
kop khun krap  
sukriya  
sagolun  
dziękuję  
hvala  
mauruu  
obrigado  
bedankt  
dank je  
terima kasih  
감사합니다



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



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



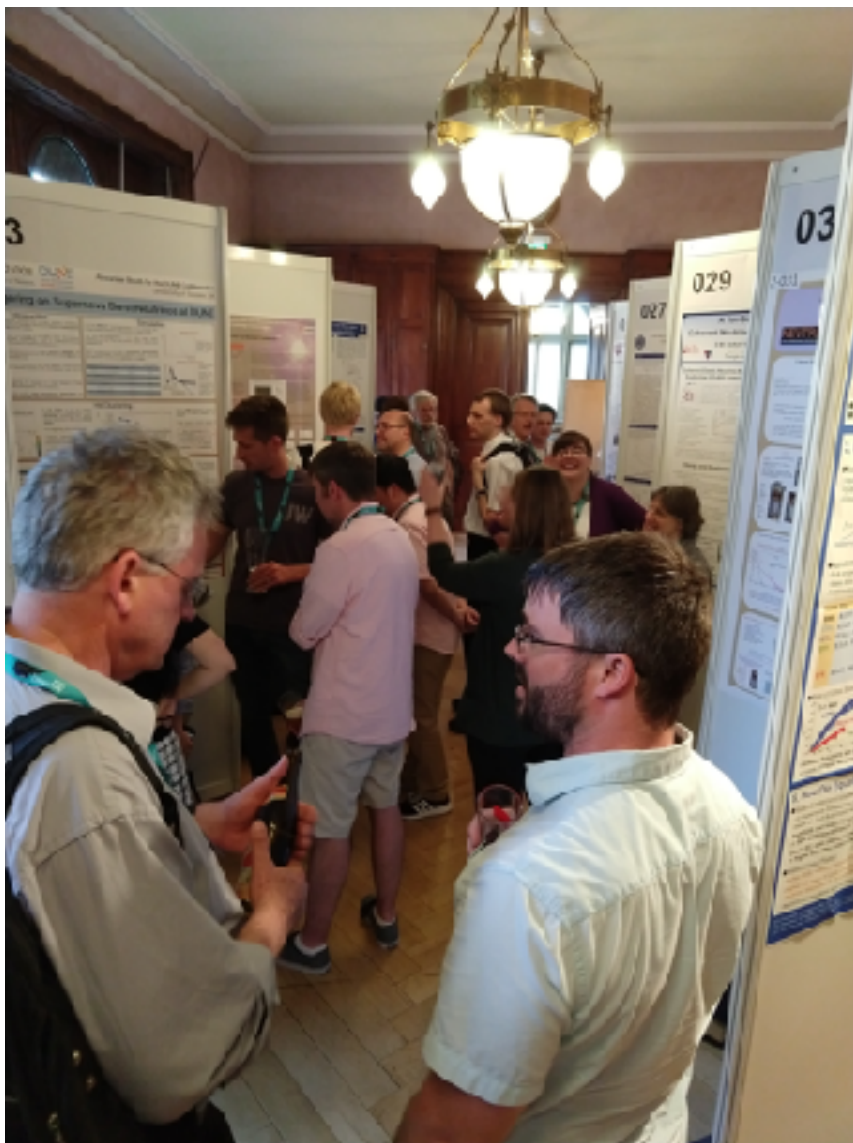
- **You the Participants (~800+)**

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

**excellent candidates  
for IAC for 2020**



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



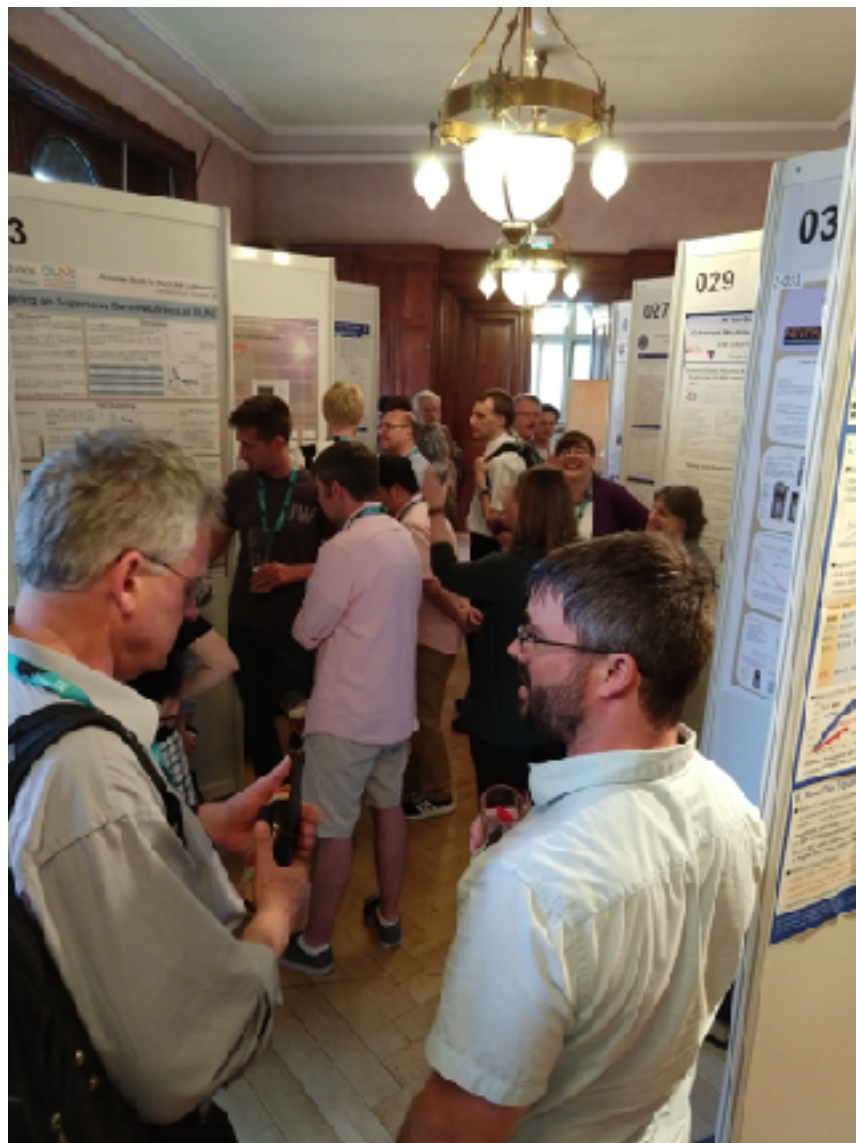
- **Scientific Speakers (~80+)**  
(and experiments)

**excellent candidates  
for IAC for 2020**

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



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



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

**excellent candidates  
for IAC for 2020**

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

# International Advisory Committees:



## International Neutrino Commission

### Former conference chairs and thereby custodians of the Neutrino conference series

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| J. Adams                  | University of Canterbury                                          |
| S. Bludman                | University of Maryland                                            |
| T. Bowles                 | Los Alamos National Laboratory                                    |
| A. Dar                    | Technion Israel Institute of Technology                           |
| G. Feldman                | Harvard University                                                |
| E. Fiorini                | Istituto Nazionale di Fisica Nucleare – Sezione di Milano Bicocca |
| F. Halzen                 | University of Wisconsin-Madison                                   |
| 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 ( <b>chair</b> ) | 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                                                  |
| Y. Suzuki                 | University of Tokyo                                               |
| F. Vannucci               | University of Paris VII                                           |
| D. Vignaud                | University of Paris VII                                           |
| F. von Feilitzsch         | TU München                                                        |

## International Advisory Committee

### Custodians of Neutrino 2018

|               |                                                               |                       |                                                                      |
|---------------|---------------------------------------------------------------|-----------------------|----------------------------------------------------------------------|
| A.S. Barabash | Institute of Theoretical and Experimental Physics Moscow      | M. Mezzetto           | Istituto Nazionale di Fisica Nucleare – Sezione di Padova            |
| L. Baudis     | Universität Zürich                                            | A. Pilaftsis          | University of Manchester                                             |
| J.F. Beacom   | Ohio State University, CCAPP                                  | G.G. Raffelt          | Max-Planck-Institut für Physik                                       |
| S.J. Brice    | Fermi National Accelerator Laboratory                         | M.C. Sanchez          | Iowa State University                                                |
| J. Cao        | Institute of High Energy Physics, Chinese Academy of Sciences | K. Scholberg          | Duke University                                                      |
| P. Coyle      | Centre de Physique des Particules de Marseille                | S.-H. Seo             | Seoul National University                                            |
| S. Davidson   | Institut de Physique Nucléaire de Lyon                        | N.J.T. Smith          | SNOLAB                                                               |
| A. Dighe      | Tata Institute of Fundamental Research                        | H. Tanaka             | University of Toronto                                                |
| S. Dodelson   | Carnegie Mellon University                                    | L. Verde              | Universitat de Barcelona                                             |
| A.D. Dolgov   | Novosibirsk State University                                  | F. Vissani            | Istituto Nazionale di Fisica Nucleare – Gran Sasso Science Institute |
| Y. Farzan     | Institute for Research in Fundamental Sciences (IPM) Tehran   | Y. Wang               | Institute of High Energy Physics, Chinese Academy of Sciences        |
| M. Goodman    | Argonne National Laboratory                                   | T.J. Weiler           | Vanderbilt University                                                |
| G. Gratta     | Stanford University                                           | C. Weinheimer         | Westfälische Wilhelms-Universität Münster                            |
| T. Hambye     | Université Libre de Bruxelles                                 | J.F. Wilkerson        | University of North Carolina                                         |
| Y. Hayato     | Kamioka Observatory, ICRR, University of Tokyo                | Y.Y.Y. Wong           | University of New South Wales                                        |
| S.-B. Kim     | Seoul National University                                     | R. Zukanovich Funchal | Universidade de São Paulo                                            |
| Y. Kuno       | Osaka University                                              |                       |                                                                      |

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| S. Pascoli                | Durham University/IPPP                                            |
| H. Pietschmann            | University of Vienna                                              |
| M. Rous                   | University of Helsinki                                            |
| S. Schmitz                | Max-Planck-Institut für Physik                                    |
| J. Schneps                | Tufts University                                                  |
| Y. Suzuki                 | University of Tokyo                                               |
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| 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                                                |
| K. Scholberg          | Duke University                                                      |
| S.-H. Seo             | Seoul National University                                            |
| N.J.T. Smith          | SNOLAB                                                               |
| H. Tanaka             | University of Toronto                                                |
| L. Verde              | Universitat de Barcelona                                             |
| F. Vissani            | Istituto Nazionale di Fisica Nucleare – Gran Sasso Science Institute |
| Y. Wang               | Institute of High Energy Physics, Chinese Academy of Sciences        |
| T.J. Weiler           | Vanderbilt University                                                |
| C. Weinheimer         | Westfälische Wilhelms-Universität Münster                            |
| J.F. Wilkerson        | University of North Carolina                                         |
| Y.Y.Y. Wong           | University of New South Wales                                        |
| R. Zukanovich Funchal | Universidade de São Paulo                                            |

Discourage from being

# Post Docs and Graduate Students Helpers:

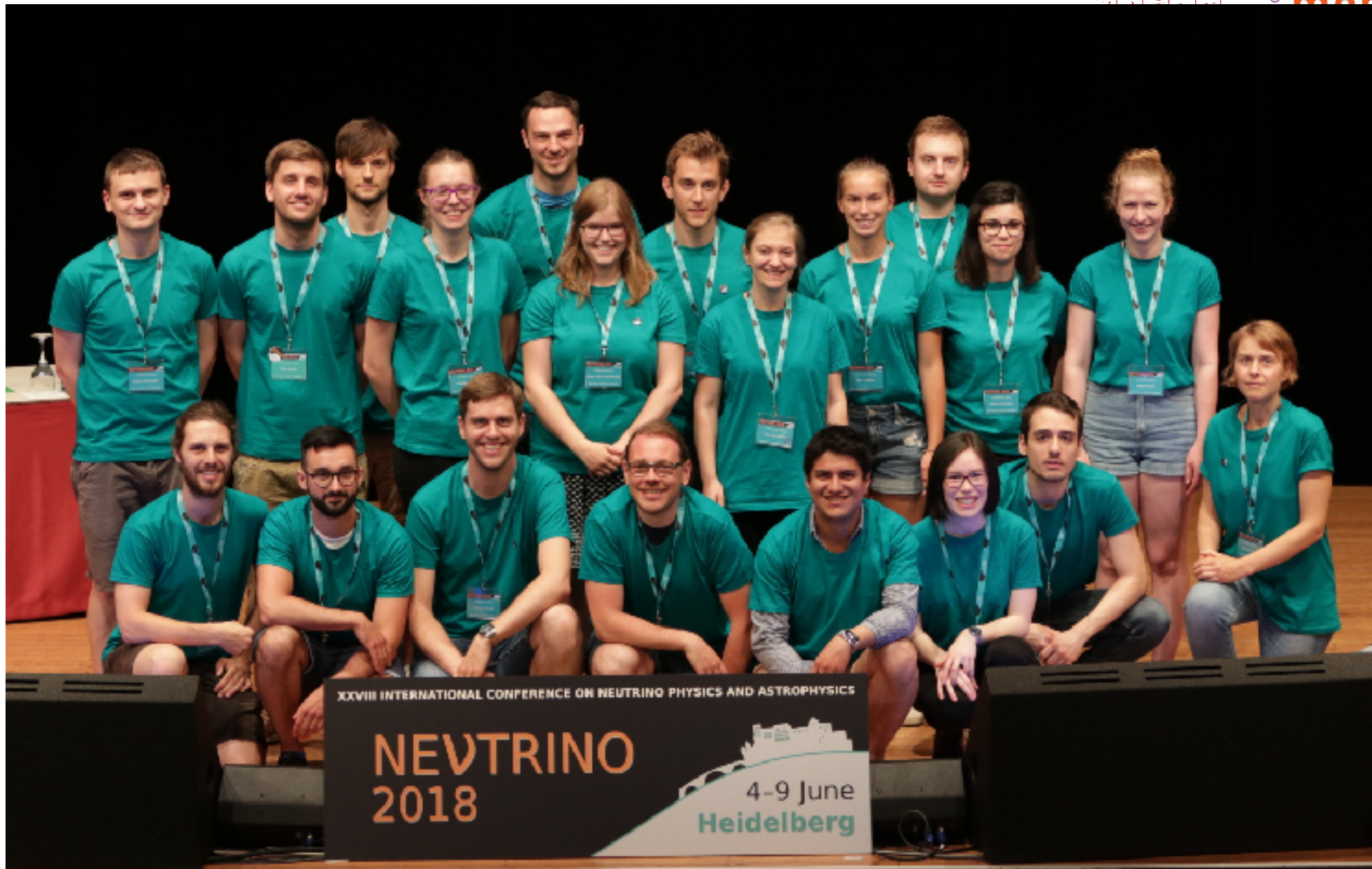
Luisa Hoetzsch  
Stefan Bruenner  
Tobias Schierhuber  
Christiane Klein  
Natascha Rupp  
Thomas Hugle  
Christian Doering  
Susan van der Woude  
Carlos Jaramillo  
Sophie Klett  
Helena Almazan  
Christian Roca  
Veronica Pizzella  
Ingolf Bischer  
Thomas Rink  
Dominick Cichon  
Moritz Platscher  
Florian Joerg  
Oliver Wack  
Lena Salfenmoser  
Johannes Heizmann  
Dominic Hinz  
Annika Holland-Cunz  
Julia Thomas  
Julia Handl  
Chenran Xu  
Thea Moosmayer  
Marius Götz  
Jan-Ole Gosewisch  
Moritz Hackenjös



# Post Docs and Graduate Students Helpers:

danke 謝謝  
спасибо  
teşekkür ederim  
dank je  
gracias  
tapadh leat  
mochchakkeram  
go raibh maith agat  
arigato  
tak  
dakujem  
merci  
sukriya  
kop khun krap  
grazie  
arigato  
tak  
dakujem  
merci  
sagolun  
hvala  
mauruu  
bedankt  
dziękuje  
obrigado  
terima kasih  
στώ

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Stefan Bruenner  
Tobias Schierhuber  
Christiane Klein  
Natascha Rupp  
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Annika Holland-Cunz  
Julia Thomas  
Julia Handl  
Chenran Xu  
Thea Moosmayer  
Marius Götz  
Jan-Ole Gosewisch  
Moritz Hackenjos



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## E. Akhmedov

# A. Berneiser

**C. Buck**

## G. Drexlin (co-chair)

# K. Eitel

# K. Fischer

## M. Lindner (chair)

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