

International Conference on Topics in Astroparticle and Underground Physics (TAUP 2011)

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2012 J. Phys.: Conf. Ser. 375 001001

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Preface

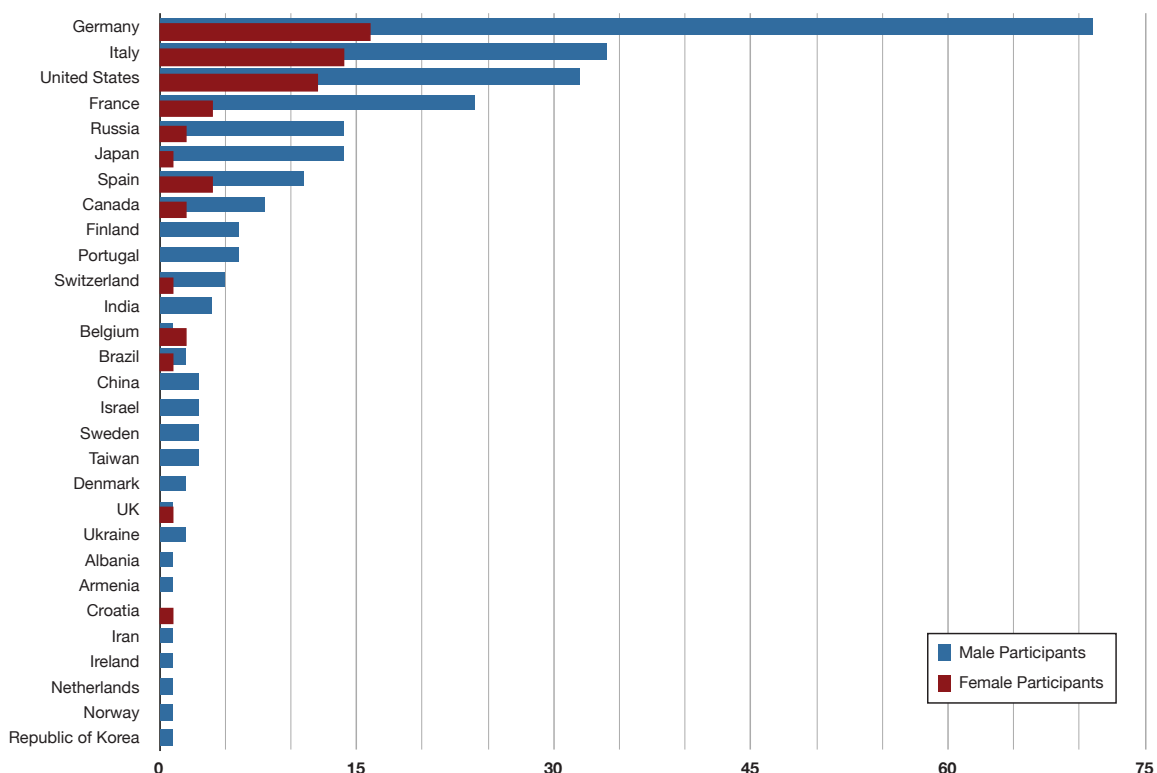
The 12th edition of the International Conference on Topics in Astroparticle and Underground Physics (TAUP 2011) was held 5–9 September 2011 in Munich (and for the first time in Germany). It was organized by the Max Planck Institute for Physics (MPP), the Technical University Munich (TUM) and the Cluster of Excellence “Origin and Structure of the Universe”. The conference was held in the “Künstlerhaus”, a traditional downtown location for artistic festivities.

The meeting attracted 317 participants (61 of which were women) from 29 countries, see Figure below. The topics covered by the meeting were *Cosmology and particle physics*, *Dark matter and its detection*, *Neutrino physics and astrophysics*, *Gravitational waves* and *High-energy astrophysics and cosmic rays*, and the various interfaces between these areas. The scientific sessions consisted of five mornings of plenary talks, four afternoons of parallel sessions, and an evening poster session.

After the completion of TAUP 2011, the co-founder of the conference series, Alessandro Bottino, has decided to retire from the position of chairman of the TAUP Steering Committee. On behalf of all followers of this series, we thank him for having started these inspiring events and his many years of dedicated service.

We thank all speakers, conveners and participants as well as the members of the organizing, steering and international advisory committee for making this a successful and memorable meeting.

Lothar Oberauer, Georg Raffelt, Robert Wagner
(Proceedings editors)



Committees

International Advisory Committee

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| J. Bernabeu | University of Valencia |
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| N. Fornengo | University of Turin & INFN |
| T. Kajita | ICRR Tokyo |
| C. W. Kim | Johns Hopkins University & KIAS |
| V. Matveev | INR Moscow |
| G. Raffelt | Max Planck Institute for Physics |
| D. Sinclair | University of Carleton |
| M. Spiro | CEA Saclay |

Parallel Session Conveners

Dark Matter – Candidates and Searches

| | |
|------------------------|--------------------------------|
| J.-C. Lanfranchi | Technische Universität München |
| T. Marrodán Undagoitia | University of Zurich |
| T. Bringmann | Universität Hamburg |

Cosmology

| | |
|--------------|--|
| J. Weller | Ludwig-Maximilians-Universität München |
| S. Hannestad | University of Aarhus |

Double Beta Decay, Neutrino Mass

| | |
|-------------|------------------------------------|
| M. Hirsch | IFIC/CSIC - University of Valencia |
| A. Giuliani | CNRS Orsay |

Neutrino Oscillations

| | |
|----------------|----------------------|
| T. Lachenmaier | Universität Tübingen |
| F. Suekane | Tohoku University |

Low-Energy Neutrinos (Geo, Solar, Supernova)

| | |
|----------|---------------------|
| A. Dighe | TIFR Mumbai |
| M. Chen | Queen's University |
| M. Wurm | Universität Hamburg |

Gravitational Waves

| | |
|-----------|---|
| E. Coccia | University of Rome Tor Vergata and INFN |
| S. Marka | Columbia University |

Astrophysical Messengers (Neutrinos, Gamma-Rays, Cosmic Rays)

| | |
|----------------|--------------------------------|
| R. M. Wagner | Max-Planck-Institut für Physik |
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| M. Kowalski | University of Bonn |

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| B. Wankerl | Excellence Cluster “Origin and Structure of the Universe” |
| M. Wurm | Technische Universität München |
| S. Zollinger | Max-Planck-Institut für Physik |

