



ECT*



EUROPEAN CENTRE FOR THEORETICAL STUDIES IN NUCLEAR PHYSICS AND RELATED AREAS

TRENTO, ITALY

Institutional Member of the European Expert Committee NUPECC



NuSPRASEN



Nuclear Structure Physics, Reactions, Astrophysics and Superheavy Elements Network



Castello di Trento ("Trint"), watercolor 19.8 x 27.7, painted by A. Dürer on his way back from Venice (1495). British Museum,

Indirect Methods in Nuclear Astrophysics

Trento, November 5-9, 2018

Main topics

Nuclear astrophysics for practitioners. Status of nuclear data needs, stellar dynamics, nucleosynthesis modeling, observations
Review of existing indirect methods in nuclear astrophysics
- "the list".

Specifics. Assessment of problems with the accuracy of indirect methods, importance of calculated absolute values
The need for modern theories and codes; parameters to use in calculations
Review of experimental methods, equipment and specifics
New facilities, including RIB facilities, and their nuclear astrophysics programs

Key-note participants

Aldo Bonasera (*LNS Catania and TAMU*), Leonid Chulkov (*GSI*), Roland Diehl (*MPE Munich*), Brian Fields (*UI Urbana-Champaign*), Moshe Gai (*Uni Connecticut*), Raphael Hirschi (*Univ Keele*), Jordi Jose (*UPC Barcelona*), Grant Mathews (*Notre Dame University*), Peter Mohr (*Germany*), Takashi Nakamura (*Univ Tokyo*), Joseph Natowitz (*TAMU*), Kazuyuki Ogata (*Univ Osaka*), Alexandrina Petrovici (*IFIN-HH*), Emanuel Pollacco (*CEA Saclay*), Stefano Romano (*LNS Catania*), Claudio Spitaleri (*Catania*), Artemis Spyrou (*MSU*), Aurora Tumino (*Catania & Enna*), Stefan Typel (*TU Darmstadt*), Furong Xu (*Peking Univ*), Hidetoshi Yamaguchi (*Univ Tokyo*), Shan-Gui Zhou (*Beijing*)

Organizers

Livius Trache (*IFIN-HH Bucharest*) – coordinator
Carlos Bertulani (*TAMU Commerce*), Angela Bonaccorso (*INFN Pisa*), Zsolt Fulop (*ATOMKI Debrecen*),
Tohru Motobayashi (*RIKEN*)

Director of the ECT*: Professor Jochen Wambach (ECT*)

The ECT* is sponsored by the "Fondazione Bruno Kessler" in collaboration with the "Assessorato alla Cultura" (Provincia Autonoma di Trento), funding agencies of EU Member and Associated States and has the support of the Department of Physics of the University of Trento.

For local organization please contact: Ines Campo - ECT* Secretariat - Villa Tambosi - Strada delle Tabarelle 286 - 38123 Villazzano (Trento) - Italy
Tel.:(+39-0461) 314721 Fax:(+39-0461) 314750, E-mail: inecampo@ectstar.eu or visit <http://www.ectstar.eu>