

ONLINE Workshop



Key Reactions in Nuclear Astrophysics

June 22-23, 2021 on ZOOM Platform

Abstract | Main Topics

The workshop intends to discuss existing results in nuclear astrophysics and to identify key reactions for which the stable and RIB facilities need to assess information of interest for nuclear astrophysics. Physicists working on stellar modeling and observations (astronomy, cosmochemistry ...) together with theoreticians and experimentalists working on nuclear reactions will meet with the purpose of identifying stellar scenarios needing nuclear reaction data that make sizable difference in stellar evolution and the optimal methods to obtain them.

Keynote speakers

Alessandro Chieffi, Istituto Nazionale di Astrofisica – IAPS, Rome, Italy;
Sandrine Courtin, Institut Pluridisciplinaire Hubert Curien, Strasbourg, France;
Scilla Degl'Innocenti, Dipartimento di Fisica, Università di Pisa, Italy;
Carla Frohlich, Department of Physics, North Carolina State University, North Carolina;
Taka Kajino, National Astr. Observatory of Japan, Tokyo, Japan & Beihang Univ., Beijing, China;
Grant Mathews, Center for Astrophysics, Notre Dame University, Indiana;
Jorge Pereira, National Superconducting Cyclotron Laboratory, Michigan State University, Michigan;
Moritz Pleintinger, Max Planck Institute for Extraterrestrial Physics, Garching-Munich, Germany;
Giuseppe Gabriele Rapisarda, Università degli Studi di Catania, Catania, Italy & INFN-LNS;
Alexandra Spiridon, Institute of Physics and Nuclear Engineering, IFIN-HH, Romania;
Rebecca Surman, Dept. of Physics, University of Notre Dame, Indiana

Organizers

Aurora **Tumino**, Facoltà di Architettura e Ingegneria Università degli Studi di Enna "Kore" & INFN-LNS; Jordi **José**, Technical University of Catalonia; Carlos **Bertulani**, Texas A&M University-Commerce, Livius **Trache**, IFIN-HH Bucarest-Magurele; Roland **Diehl**, Max Planck Institut fuer extraterrestrische Physik

Director of the ECT*: Professor Gert **Aarts** | The ECT* is part of the Fondazione Bruno Kessler.

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