

NIC XIX



Santa Fe, NM

Dear colleague,

The 19th edition of the

Nuclei in the Cosmos

conference will take place July 19-23, 2027 at the [Eldorado Hotel & Spa, Santa Fe, NM](#), USA.

Astrophysics brings together the unique combination of nuclear physics, astronomical observations, stellar models and galactic chemical evolution. The impressive progress during the last decades explaining and predicting astronomical scenarios was only possible because of the fruitful interplay between these disciplines. New insights in one field triggered new developments in the others. New experimental techniques are typically the response to new predictions and observations. There are recent success stories all over, from exotic objects like merging neutron stars, to red giants or even stars like our Sun.

Every two years the Nuclei in the Cosmos conference brings together researchers from a multi-disciplinary community of experimental and theoretical nuclear physicists, astronomers, astrophysicists and cosmo-chemists to discuss the current challenges of this exciting and fast developing research field.

Former conferences of this series were held in Baden (1990), Karlsruhe (1992), Gran Sasso (1994), Notre Dame (1996), Volos (1998), Arhus (2000), Fuji-Yushida (2002), Vancouver (2004), CERN (2006), Fuji-Yushida (2008), Heidelberg (2010), Cairns (2012), Debrecen (2014), Niigata (2016), Gran Sasso (2018), Chengdu (2021), Daejeon (2023) and Girona (2025).

The conference is jointly organized by the Los Alamos National Laboratory (LANL), the Michigan State University (MSU) and the University of Notre Dame (ND). The organizing committee is comprised of

René Reifarth (LANL, chair)
Manoel Couder (ND)
Aaron Couture (LANL)
Filomena Nunes (MSU)
Anna Simon-Robertson (ND)
Artemis Spyrou (MSU)
Rebecca Surman (ND)

The details about the conference registration, venue, accommodation, etc. will be given in forthcoming circulars and on the constantly updated website:

<http://exp-astro.de/meetings/nic-2027/>

We want to keep the spirit and tradition of former editions of this conference and will have no parallel sessions. ***Each talk is a plenary talk!*** The program will consist of about 20 invited and 40 contributed talks. The selection will be based on the recommendations of the Scientific Advisory Committee (SAC) and the submitted abstracts.

All contributions not selected for oral presentation, will be presented in one of two dedicated poster sessions.

The conference will be preceded by a school and followed by satellite workshops. Further information and any additional organizational details like the participation fees, proceedings and the deadlines will be provided in the second circular.

Please mark you calendar and forward this announcement as you deem appropriate.

We are looking forward to welcoming many of you next year in Santa Fe.

Aaron, Anna, Artemis, Filomena, Manoel, Rebecca, and René.