



Contribution ID: 3

Type: **not specified**

European solid target connection for nuclear astrophysics: the STAR task of ChETEC-INFRA

The joint work of European target laboratories in the ChETEC-INFRA project is presented, to face the new experimental challenges of nuclear astrophysics. In particular, results are presented on innovative targets of ^{12}C , ^{13}C , ^{16}O , and ^{19}F that were produced, characterized, and, in some cases, tested under beam irradiation. STAR (Solid Targets for Astrophysics Research) is already acting to increase collaboration among laboratories, to achieve shared protocols for target production, and to offer a characterization service to the entire nuclear astrophysics community.

<https://arxiv.org/abs/2504.16147>

Title

European solid target connection for nuclear astrophysics: the STAR task of ChETEC-INFRA

Authors

Roberta Spartà, Alexandra Spiridon, Rosanna Depalo, Denise Piatti, Antonio Massara, Nicoleta Florea, Marcel Heine, Radu-Florin Andrei, Beyhan Bastin, Ion Burducea, Antonio Caciolli, Matteo Campostrini, Sandrine Courtin, Federico Ferraro, Giovanni Luca Guardo, Felix Heim, Decebal Iancu, Marco La Cognata, Livio Lamia, Gaetano Lanzalone, Eliana Masha, Paul Mereuta, Jean Nippert, Rosario Gianluca Pizzone, Giuseppe Gabriele Rapisarda, Maria Letizia Sergi, Jakub Skowronski, Dana State, Tamas Szucs, Livius Trache, Aurora Tumino

Author: SPARTÀ, Roberta (Università degli Studi di Enna Kore and Laboratori Nazionali del Sud - INFN)

Presenter: SPARTÀ, Roberta (Università degli Studi di Enna Kore and Laboratori Nazionali del Sud - INFN)