Contribution ID: **165** Type: **Oral Contribution**

Study of (p,2p) at CALIFA calorimeter in knockout induced fission of 238U

Thursday 27 October 2022 16:10 (15 minutes)

Nuclear fission has been used as a tool for the study of nuclear properties since its discovery in 1939. A new approach was performed in the context of the R3B collaboration, at the FAIR facilities, in which knockout reactions were used to induce fission in ^{238}U, that will allow to characterise the excitation energy of the process. The CALIFA calorimeter, a key part of the set-up, will be used to reconstruct the momentum of the two protons coming out the $(p, 2p + f)$ reaction. Preliminary results show that kinematic variables and quasifree regime are well reconstructed and in good agreement with theory.

Primary author: NOT SUPPLIED, GARCIA JIMENEZ GABRIEL

Presenter: NOT SUPPLIED, GARCIA JIMENEZ GABRIEL

Session Classification: P2 Nuclear Structure, Spectroscopy, and Dynamics

Track Classification: P2 Nuclear Structure, Spectroscopy, and Dynamics