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

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Nuclear fission has been used as a tool for the study of nuclear propierties 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, which 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 $(p, 2pf)$ reaction. Preliminary results show that kinematic variables are well reconstructed and in good agreement with theory.

Topic

Experiment

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