6th International Conference on Collective Motion in Nuclei under Extreme Conditions (COMEX6)



Contribution ID: 89

Type: Poster

Search for γ -transitions from clustered states in 16O^{*}

An overview of the $12C(\alpha,\gamma)16O$ experiment at the University of Birmingham's MC40 cyclotron is presented in this work.

The experimental set-up was a combination of the existing charged particle expertise and capability of the group and the ability to measure the emitted gamma rays using our new LaBr3 detector array. The motivation for this is to measure or put constraints on the B(E2)s for the 16O nucleus. Such observations aid the assignment of rotational levels built on cluster configurations. This work is part of my PhD research.

Primary author: Mr SANTA RITA, P (University of Birmingham)

Co-authors: Dr KOKALOVA, Tz (University of Birmingham); Dr WHELDON, C (University of Birmingham); Mr BISHOP, J (University of Birmingham); Mr N, Curtis (University of Birmingham); Mr FREER, M (University of Birmingham); Mr SMITH, Robin (University of Birmingham and Sheffield Hallam University); Mr TURNER, A (University of Birmingham); Mr PARKER, DJ (University of Birmingham); Mr WALSHE, J (University of Birmingham)

Presenter: Mr SANTA RITA, P (University of Birmingham)

Track Classification: Track B