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Characterisation of potential cluster states in ^{16}O

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Abstract content (Max 300 words) **Formatting & Special chars**

A notable candidate for alpha clustering is the 15.097 MeV 0^+ state in ^{16}O , observed above the $4\text{-}\alpha$ threshold at 14.437 MeV. This state is predicted using several theoretical formalisms such as the OCM (Orthogonality Condition Model) and TSHR (Tohsaki-Horiuchi-Schuck-Röpke) approaches. The decay path of this state has been characterised using inelastically scattered α -particles at zero-degrees with a silicon detector array at backward angles.

Apply to be considered for a student award (Yes / No)?

Yes

Level for award (Hons, MSc, PhD, N/A)?

MSc

Main supervisor (name and email) and his / her institution

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