EGAN 2011 Workshop



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Confirmation of the molecular structure of excited bands in ²¹Ne

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AGATA in conjunction with the TRACE charged particle detector, has been used to study the 16O(7Li, n p)21Ne* reaction. This experiment aims to measure both in-band transitions and transition rates in the excited cluster bands of 21Ne. A further goal is to identify the 'missing' K = 1/2, $I\pi = 5/2$ – level, to resolve a long running discrepancy in the understanding of 21Ne. By facilitating the extraction of the dipole moments and moments of inertia for the K = 1/2 cluster bands, the molecular structure for the excited bands can be assigned. A brief status of the experiment and data will be given.

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