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Confirmation of the molecular structure of excited bands in ^{21}Ne

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AGATA in conjunction with the TRACE charged particle detector, has been used to study the $^{16}\text{O}(^7\text{Li}, n)^{21}\text{Ne}^*$ reaction. This experiment aims to measure both in-band transitions and transition rates in the excited cluster bands of ^{21}Ne . 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 ^{21}Ne . 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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