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Experiments and analyses aimed at understanding nuclear clustering

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The experimental programme at Birmingham in the the area of light nuclei focuses on nuclear cluster states. Recent investigations including a new limit on the direct decay of the carbon-12 Hoyle state, the use of machine learning to extract cluster signatures from resonant scattering data for medium-mass nuclei, and precision investigations into cluster and molecular candidate states in the oxygen isotopes. Additionally, resonances in the key X-ray-burst nucleus, neon-19, have been elucidated.
A selection of these highlights will be presented.

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