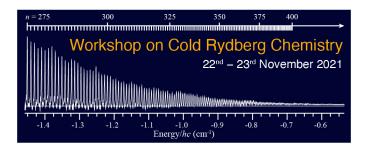
Workshop on Cold Rydberg Chemistry



Contribution ID: 15 Type: Invited

Using electron collision methods to characterise Rydberg states

Monday 22 November 2021 15:05 (30 minutes)

The R-matrix method is widely used to study a range of electron collision problems. However use scattering a negative energies has been found to be a much more effective method of characterising Rydberg states than traditional quantum chemistry techniques, which struggle reproduce high n states with conventional basis sets. The utility of the scattering method for obtain potential energy curves of many Rydberg states will be demonstrated by calculations on the nitrogen molecule.

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Session Classification: Collisions