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## Mapping a Molecular Shape Resonance During a Molecular Transformation

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We investigate the strong field ionization of photoexcited  $I_2$  molecules by  $1.3 \mu m$  laser pulses. When the molecule is stretched, we observe a large modification of the laser-assisted electron scattering cross-section that we assign to the evolution of a molecular shape resonance.

**Authors:** Dr BRAUSSE, Felix (Max-Born-Institut); Mr BACH, Florian (Max-Born-Institut); Dr KRECINIC, Faruk (Max-Born-Institut); Prof. VRAKKING, Marc J. J. (Max-Born-Institut); Dr ROUZÉE, Arnaud (Max-Born-Institut)

**Presenter:** Dr ROUZÉE, Arnaud (Max-Born-Institut)

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