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## **Nature and Coherence of the Molecular-ion Electronic State Prepared by Attosecond Ionization**

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Here we elucidate the nature of the initial state for the hole-migration dynamics following ultra-fast ionization in the molecular ion, by quantitatively predicting its electronic coherence and eigenstates content.

**Authors:** Dr RUBERTI, Marco (Imperial College London); Prof. DECLEVA, Piero (Universita' di Trieste); Dr AVERBUKH, Vitali (Imperial College London)

**Presenter:** Dr RUBERTI, Marco (Imperial College London)

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