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## Electron Correlation Driven Non-adiabatic Relaxation in 2D Molecular Structures Following Excitation by an Ultrashort XUV Pulse

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We used time-resolved XUV-IR photoelectron spectroscopy to probe the ultrafast dynamics in highly excited large carbon based molecules. Our results show evidences of manybody driven relaxation and electro-nuclear coherences. Analogies with the behaviour of 2D materials will be presented.

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