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Proton Ejection from Molecular Hydride Clusters

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Exposed to intense X-ray pulses, molecular Hydride clusters eject protons thereby reducing the charge imbalance generated by the X-ray photo ionisation. The consequence is a transient stabilisation of the heavy ions of the cluster backbone leading to a delayed Coulomb explosion. The mechanism behind the effect will be explained which will also elucidate why this peculiar dynamics only occurs for intermediate, experimentally realised, intensities of the X-ray pulse.

Pierfrancesco Di Cintio, Ulf Saalmann, and Jan-Michael Rost, Phys. Rev. Lett. 111, 123401 (2013).

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