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Autoionizing Rydberg States of H_2 Molecules in Strong Laser Field

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Channel resolved electron emission from strong-field photoionization of H_2 molecules were measured using ultrashort laser pulses and a reaction microscope. An enhancement of the photoelectron yield in the low-energy region was observed for the case of bound ionization. This enhancement is understood as the population of autoionizing Rydberg states in the neutral molecule and subsequent transfer of energy from the vibrational motion to the electron.

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