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Ionization-driven Harmonic Generation in Solids

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Recently, we have observed the generation of ionization harmonics by irradiating a fused silica sample with an intense (TW/cm^2 range) pump laser beam. We established that in our experiments, the conventional mechanism of Brunel-type emission only plays a marginal role in the production of ionization harmonics.

Authors: Mr JÜRGENS, Peter (Max Born Institute); Mr LIEWEHR, Benjamin (University of Rostock); Mr KRUSE, Björn (University of Rostock); Dr PELTZ, Christian (University of Rostock); Dr ENGEL, Dieter (Max Born Institute); Dr HUSAKOU, Anton (Max Born Institute); Dr WITTING, Tobias (Max Born Institute); Prof. IVANOV, Mikhail (Max Born Institute); Prof. VRAKKING, Marc J.J. (Max Born Institute); Prof. FENNEL, Thomas (University of Rostock); MERMILOD-BLONDIN, Alexandre (Max Born Institute)

Presenter: Dr HUSAKOU, Anton (Max Born Institute)

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