

David Breteau - Cavity-enhanced high harmonic generation for quantum optics and precise spectroscopy in the XUV frequency domain

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Cavity-enhanced high harmonic generation for quantum optics and precise spectroscopy in the XUV frequency domain

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We will present the ongoing development of France's first cavity-enhanced high harmonic generation (HHG) source. In the time domain, the source's high repetition rate should provide sufficient statistics to reveal quantum-optical aspects of the HHG process. In the spectral domain, the production of a frequency comb in the XUV range should enable precise spectroscopy of nuclear clock transitions.

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