

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

Report of Contributions

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

Thursday, December 12, 2024 11:00 AM (1h 30m)

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.

Presenter: Dr BRESTAU, David (CEA)