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The new URSA-PQ instrument for molecular photoenergy conversion at FLASH

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We present the new URSA-PQ (Ultraschnelle Roentgenspektroskopie zur Abfrage der Photoenergiekonversion in Quantensystemen) instrument for the FLASH free electron laser in Hamburg.
The instrument design is versatile and many different sources as well as detectors can be inserted, as the chamber adheres to CAMP instrument standard sizes. In its base version, a vacuum chamber with a magnetic bottle electron spectrometer, also capable of measuring ions, presents the main detector. A capillary oven will evaporate a solid molecular target creating a high local pressure at the interaction region of an optical pulse and the free electron laser x-ray pulse.
The instrument is ready for user beamtime from second half of 2019 on and its progress can be followed on http://exp-quantum.org/ursa-pq.

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