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Gas-foil target for laser-plasma ion acceleration

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The gas-foil target combines two domains in laser-plasma acceleration which are normally separate: gas targets are usually used for electron acceleration and solid targets for ion acceleration. The combination of the two thus provides a system of rich physics to explore. We are experimentally investigating this type of target with a focus on ion acceleration. The experiment is done under WHELMI, a collaboration between the labs at the Weizmann Institute of Science in Israel and the HZDR institute in Germany. I will present the main results we have obtained so far.

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