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Range of plasma ions in cold cluster gases near the critical point

G. Zhang, H.J. Quevedo, A. Bonasera, M. Donovan, G. Dyer et al.

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## Highlights

- We present experimental results obtained at the UT petawatt laser facility on the range of ions. For cluster gases, the range is strongly modified as compared to its value in a homogenous system. This result is crucial if we want to understand the dynamics of nuclear fusions from the laser interaction with a cluster gas. It becomes even more interesting if the gas is prepared near a liquid gas phase transition as we discuss. Because of the generality and novelty of our results we think that the paper satisfies the requirements to be published on PLA.

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