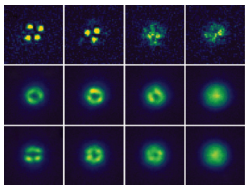

Single-shot images of a cloud of ^{162}Dy atoms at 20 nK for four different relative scattering lengths (upper row), and mean images (central and lower rows) used in the analysis of the experiment. Selected for an Editors' Suggestion. [J.-N. Schmidt *et al.*, Phys. Rev. Lett. **126**, 193002 (2021)]

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