



The image (a) shows a 0.4-mm long atom laser beam, generated by extracting atoms from the Bose-Einstein condensate at the top. The atoms in the BEC and the beam are in $m_F = 0$ spin states, making this laser (unlike earlier ones) insensitive to stray magnetic fields. The graph (b) depicts the beam's transverse spread, expected to be limited only by the uncertainty principle. See article 240408.

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