

Single Rubidium-85 Atom in a Far Off-resonance Dipole Trap

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We have trapped a laser-cooled single rubidium-85 atom in an optical dipole trap using sub-Poissonian loading scheme. The trap beam with 4mK depth was produced with 830nm focused laser beam. Our optical circuits based on the two-beam trap and homemade equipments are described. The photograph of a single rubidium-85 atom taken for the first time in Thailand is presented.

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