MILLIMETER-WAVE SPECTROSCOPY OF COLD RB^{85} ATOMS

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Cold Rb^{85} atoms were prepared by magneto-optical trap. Millimeter-wave has been used to drive nd to (n-2)f $(32 \leq n \leq 39)$ one-photon and nd to (n-1)g $(31 \leq n \leq 36)$ two-photon transitions. Quantum defects of f and g states of Rb^{85} were calculated. Full analyses will be presented. [a].

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