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IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT. VOL. 40. NO. 2. APRIL 1991 129
Studies of Laser-Cooled Trapped Yb⁺ Hugh A. Klein, Angus S. Bell, Geoffrey P. Barwood, et al.

Studies of laser-cooled trapped Yb⁺ - [PDF Document]

216 Laser-Cooled Trapped-Ion Experiments motion parallel and perpendicular to the magnetic field may have different temperatures (5,6). In thermal equilibrium, the rotation (at frequency ω) of the ions about the magnetic field axis is uniform or "rigid" (6,14). An important advantage of singly charged ions in plasma studies is that the atomic structure of the ions can be used to

Laser-Cooled Trapped-Ion Experiments at NIST

Laser-Cooled and Trapped Atoms Proceedings of the Workshop on Spectroscopic Applications of Slow Atomic Beams NBS Gaithersburg, MD, 14-15 April 1983 William D. Phillips, Editor ...

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1008 J. Opt. Soc. Am. B/Vol. 3, No. 7/July 1986 Temperature of a laser-cooled trapped three-level ion Markus Lindberg Institut für Theoretische Physik, Universität Frankfurt, et al.

Temperature of a laser-cooled trapped three-level ion

trapped molecular density of $8(2) \times 10^7 \text{ cm}^{-3}$ is an order of magnitude greater than in the initial sub-Doppler cooled sample. The trap lifetime of 750(40)ms is dominated by background gas

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Studies of laser-cooled trapped Yb⁺ + [frequency standard]

LASER COOLING OF TRAPPED IONS 523 For both Paul and Penning traps, the sideband cooling limit for a single ion is $1/2(n) = 4(a + 1/4)(\gamma b/\omega a)^2$, where a depends on the angular distribution for photon emission and is of order 1. Equation (2) is valid when the intensity of the cooling radiation is below satu-

Laser Cooling of Trapped Ions. - NIST

PREFACE This collection of papers represents the work on laser cooled, stored atomic ions by the Time and Frequency Division of the National Institute of Standards and Technology (formerly the National Bureau of Standards) from

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