

EXCITATION OF ATOMS AND BROADENING OF SPECTRAL LINES%0A

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Excitation of Atoms and Broadening of Spectral Lines Second Edition With 21 Figures Springer Professor Dr. Igor I. Sobelman Professor Leonid A. Vainshtein Dr. Evgenii A. Yukov P. N. Lebedev Physical Institute, Russian Academy of Sciences, Leninsky Prospect 53, 117924 Moscow, Russia

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In this chapter, the most important elementary processes responsible for the excitation and ionization of atoms and ions are listed, and their relative role in various plasmas is briefly discussed.

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yields by far the most accurate values. All other methods yield values that are inferior by 1 order of magnitude. The systematic lower value for Cw using first harmonic detection

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Excitation of Atoms and Broadening of Spectral Lines - II ...

This book is devoted to the systematic treatment of the theory of the elementary processes responsible for the excitation of atomic spectra and the theory of spectral line broadening. The choice of problems is significantly different from that traditional for books on the theory of atomic collisions. The main goal of the book is to present the most efficient and useful of comparatively simple

Calculation of the broadening of HeI 10830 for a solar

...

The Doppler effect is an important mechanism of broadening for the spectral lines of solar flares. When the velocity of thermal motion LI Hui et al. / Chinese Astronomy and Astrophysics 26 (2002) 293-300 295

$2RT/1_L$ and that of non-thermal motion (i.e., microturbulence) are simultaneously considered, the coefficient of absorption per particle is $a_{ij} = \frac{1}{4\pi} \int_{-1}^1 d\mu \int_0^\infty v^2 f(v) dv$, $\sigma_{ij} = \frac{1}{4\pi} \int_{-1}^1 d\mu \int_0^\infty v^2 f(v) dv$

On stark-broadening of spectral lines from plasmas ...

Formal expressions are derived for the shapes of spectral lines, emitted by atoms or ions in a plasma. As far as Stark-broadening is concerned, the result is expressed in terms of the time-dependent auto-correlation function for the electric micro-field.

14 Shape of Spectral Lines - Astrophysics Data System

14 Shape of Spectral Lines can be obtained for a specific atom's propensity to emit photons. The former will be independent of the type of atom, while the latter will yield a larger broadening that