

"High Accuracy Atomic Physics in Astronomy", IP/ITAMP workshop, August 7-9, 2006, The Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, in honor of Prof. Micheal J. Seaton

RECENT ADVANCES IN THE CHIANTI PROJECT

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CHIANTI consists of a database of atomic data and transition rates and of a suite of IDL software programs that allow the calculation of synthetic spectra and spectroscopic diagnostics of optically thin plasmas to be carried out. Over the years CHIANTI has been used by an increasingly wide audience of scientists from all disciplines of astrophysics, and it has undergone extensive development and improvement.

In this talk, I will describe the main features of the current version of the CHIANTI database and the plans for future releases.