
maKe Atoms Simple (KAS): a tool for create, manipulate and build model atoms.

Yeisson Osorio*¹

¹Instituto de Astrofísica de Canarias – Spain

Abstract

Part of the input data required for all NLTE codes include collected information of the atomic species of interest via the so called model atoms. These are often not public, making difficult the comparison between different codes. Here we present the IDL/GDL code maKe Atoms Simple (KAS); a code that collect atomic data and built model atoms for NLTE radiative transfer codes such as TLUSTY.

One of the updates in the latest version of TLUSTY has the option to include a suite of collisional processes in the form of tables with temperature vs. collisional rates. This update update also allows for the identification of atomic levels in order to match them properly with the SYNSPEC's linelist input file. Some examples and comparisons between different collections of atomic data are presented here together with the resulting synthetic spectra.

*Speaker