

The LisbOn Knetics Boltzmann solver (LoKI-B)

(developed under MATLAB®)



OPEN SOURCE

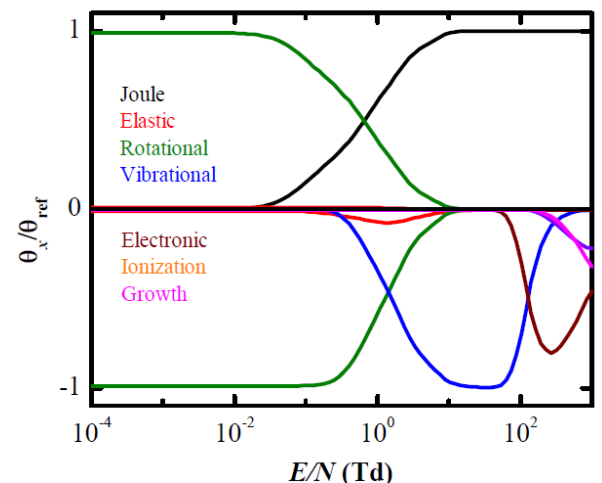
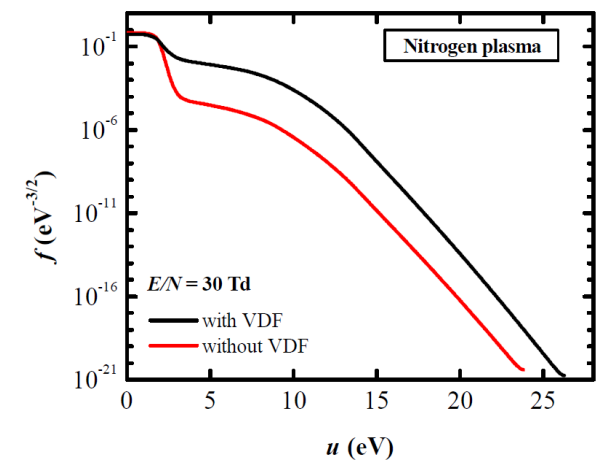
LoKI-B

<https://github.com/IST-Lisbon/LoKI>

- solves the time and space independent form of the two-term electron Boltzmann equation
- includes e-e collisions, CAR operator, and growth models for the electron density.

The LisbOn Kinetics Boltzmann solver

was developed as a response to the need of having an electron Boltzmann solver easily addressing the **simulation of the electron kinetics in any complex gas mixture** (of atomic / molecular species), describing first and second-kind electron collisions with **any target state** (electronic, vibrational and rotational), characterized by **any user-prescribed population**.



A. Tejero-del-Caz *et al*/ Plasma Sources Sci. Technol. 28 (2019) 043001