The LisbOn KInetics Boltzmann solver (LoKI-B)

(developed under MATLAB®)

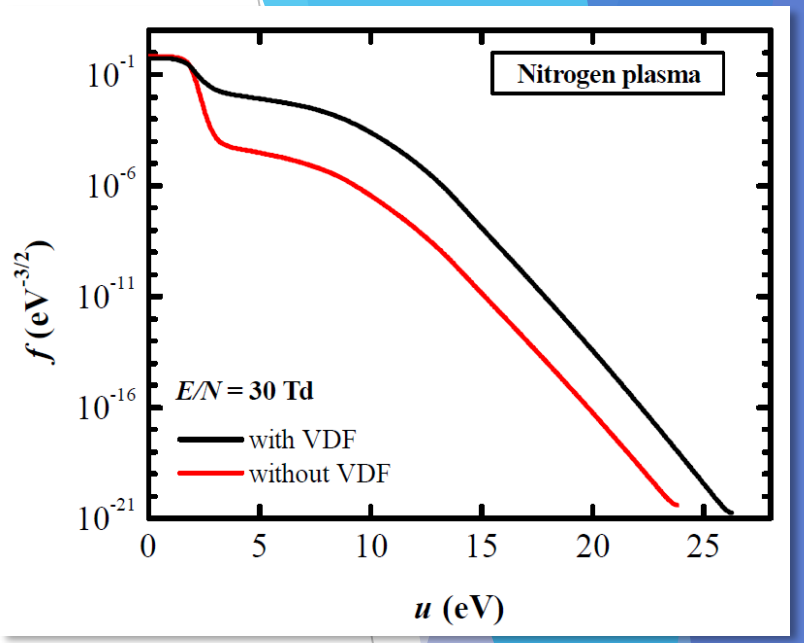
LisbOn KInetics

LoKI-B

OPEN SOURCE

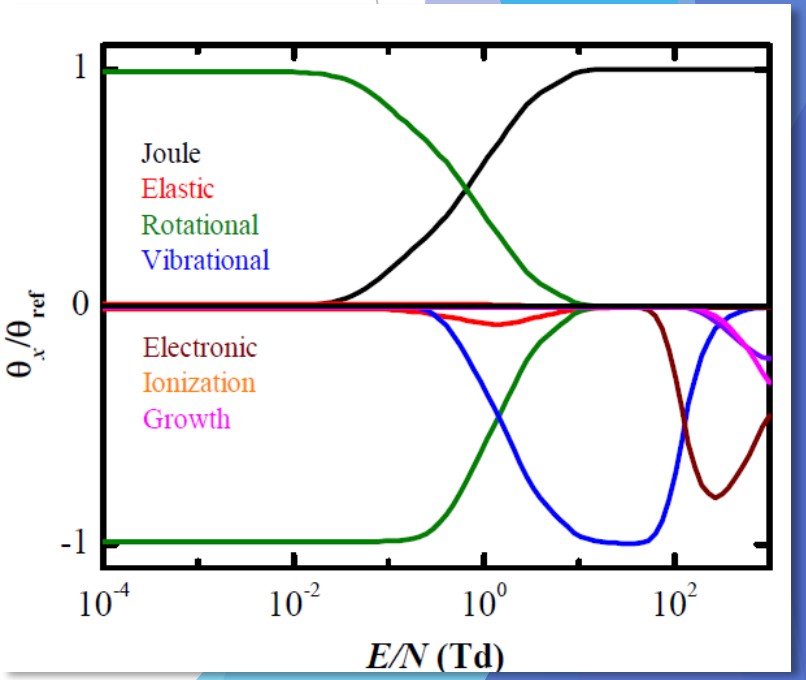
https://github.com/IST-Lisbon/LoKI

- 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

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