

## Validation exercise of the KEPLER Workflow

JET shot 77922 : [48.7 s – 52.5 s]

3 transport equations ( $\Psi$ ,  $T_e$ ,  $T_i$ )

Source prescribed (but NCLASS)

Bohm/GyroBohm (JET coefficients)

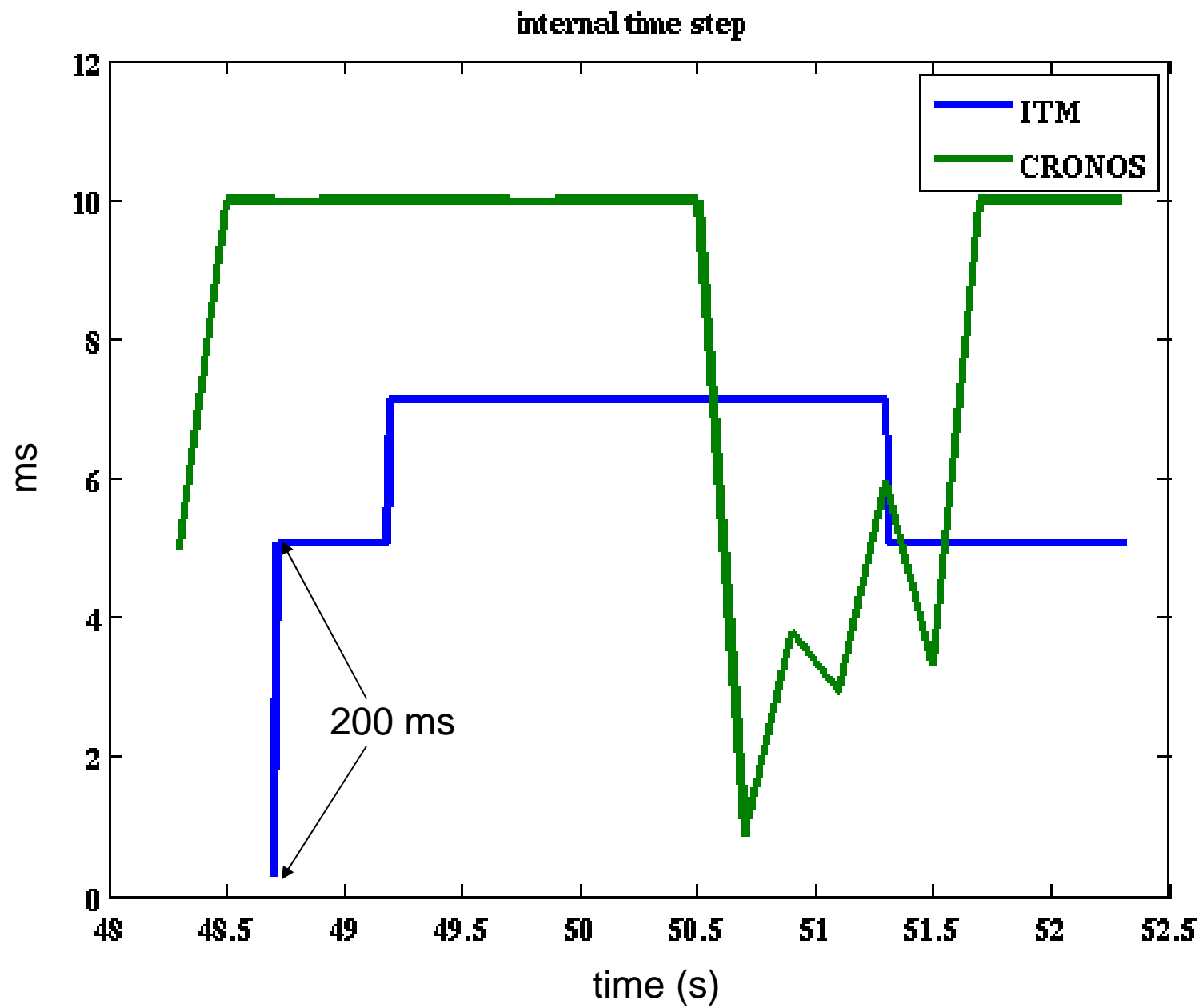
Equilibrium every 50 time steps (HELENA21)

### Procedure

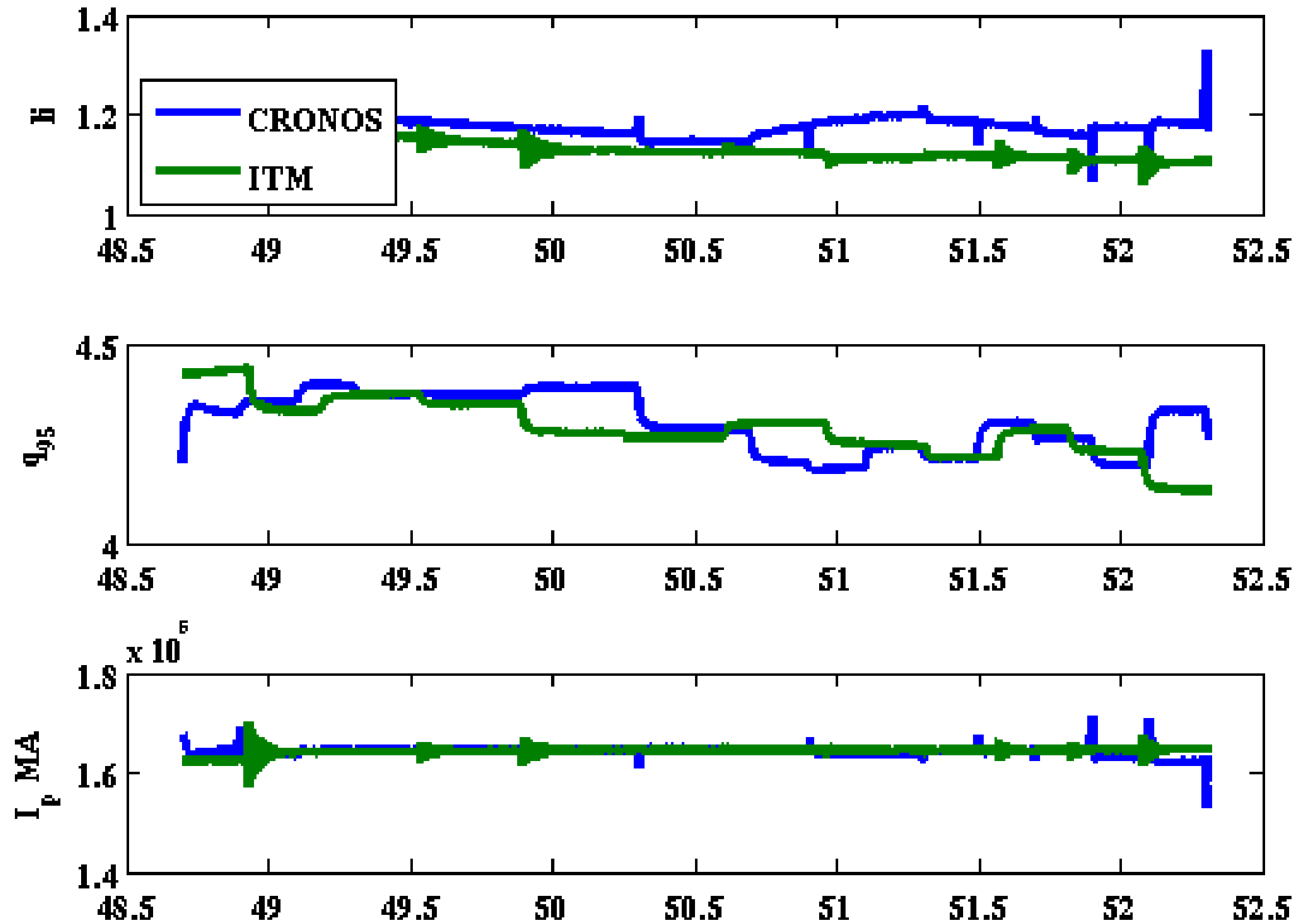
Run CRONOS on the gateway  $\Rightarrow$  generation of an outputfile

Creation of the CPO with the MatLab routine scriptshot.m

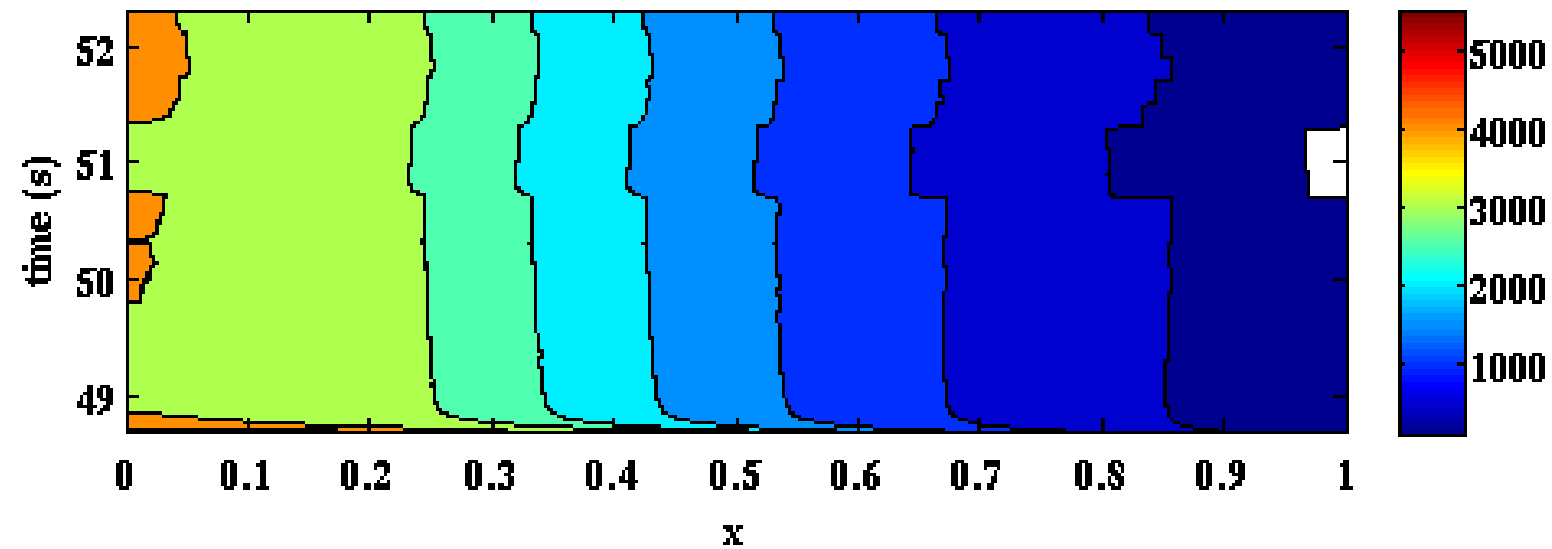
Run kepler workflow (same modules as CRONOS)



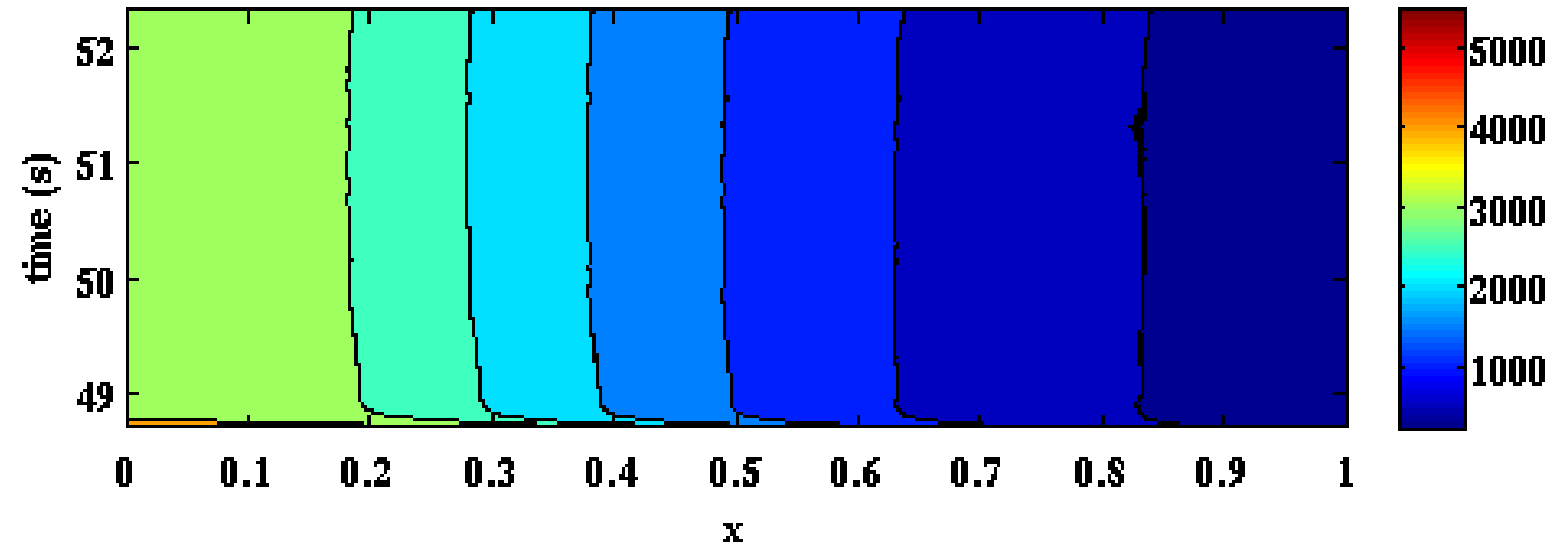
shot 77922, prescribed sources, psi Te and Ti



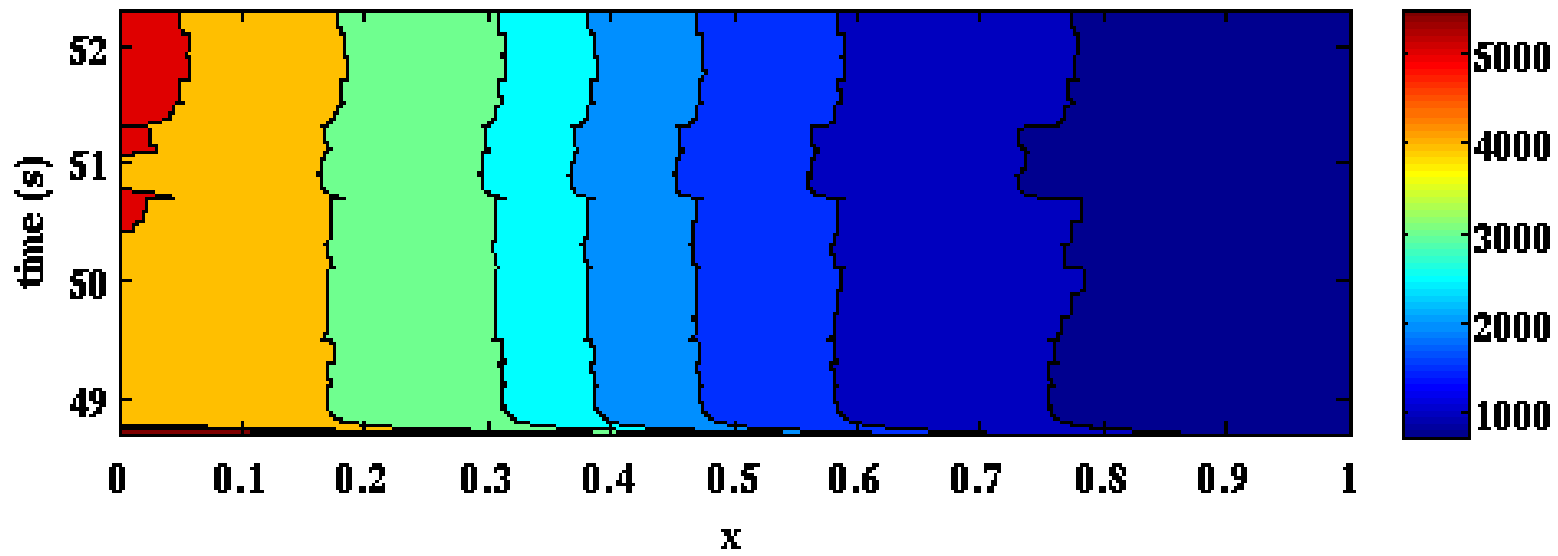
Te (eV), CRONOS



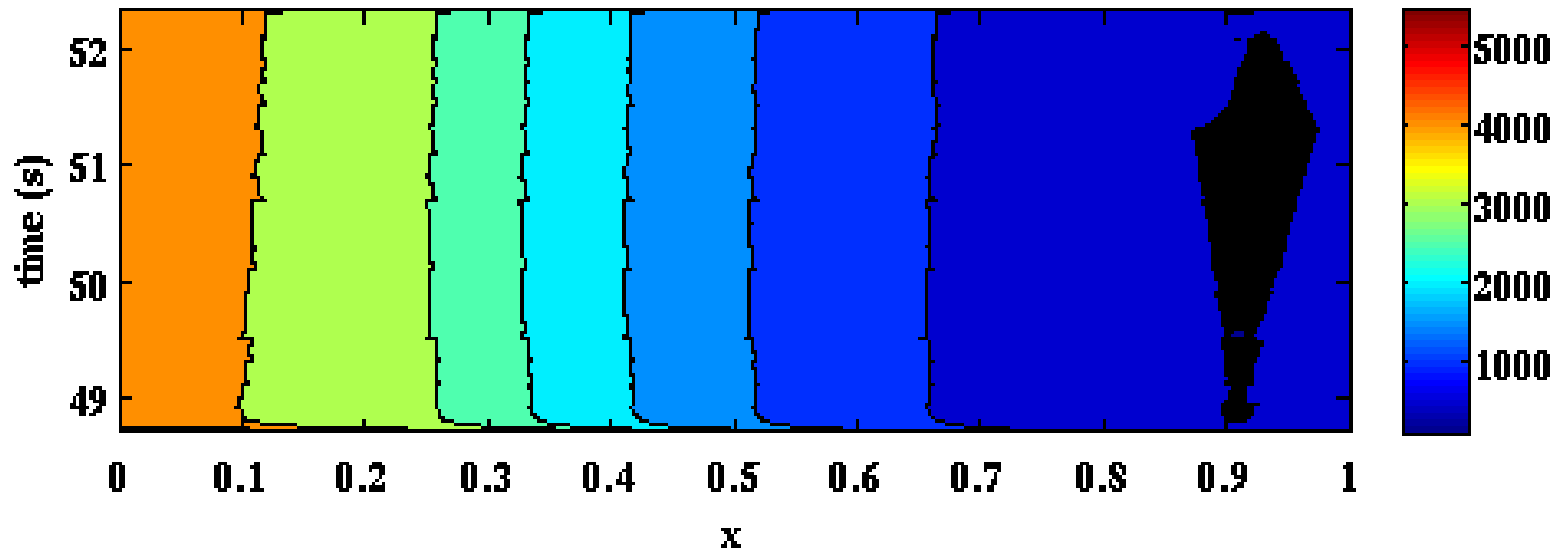
Te (eV), ITM



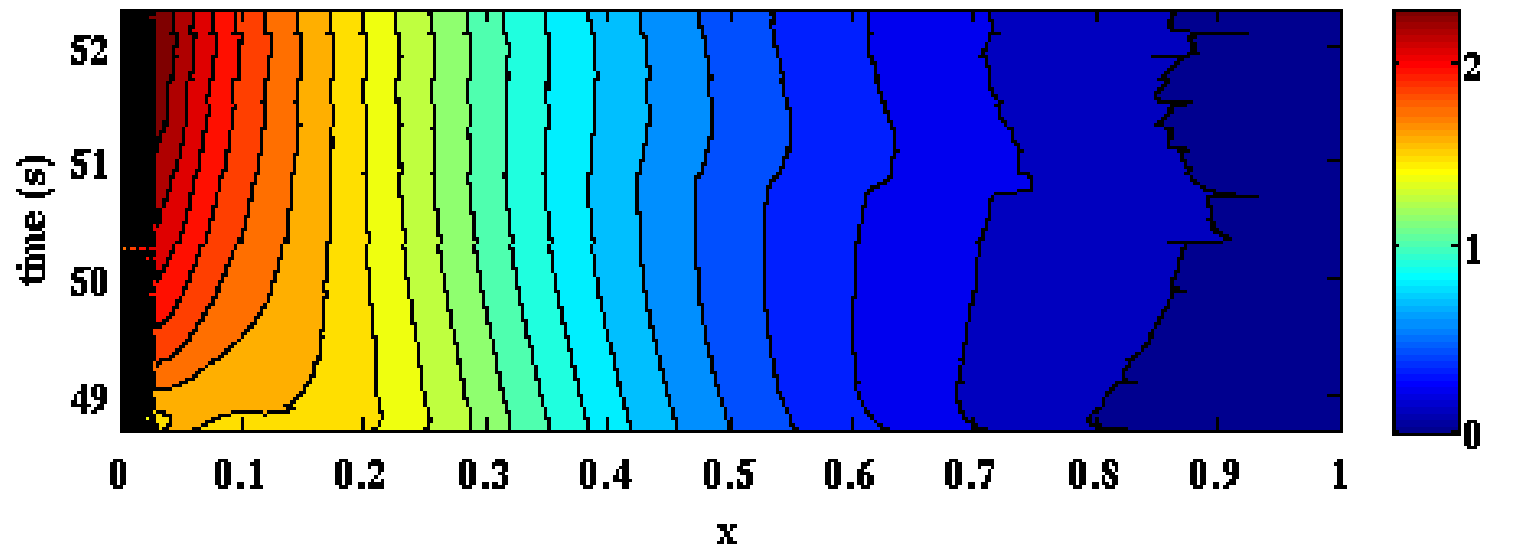
Ti (eV), CRONOS



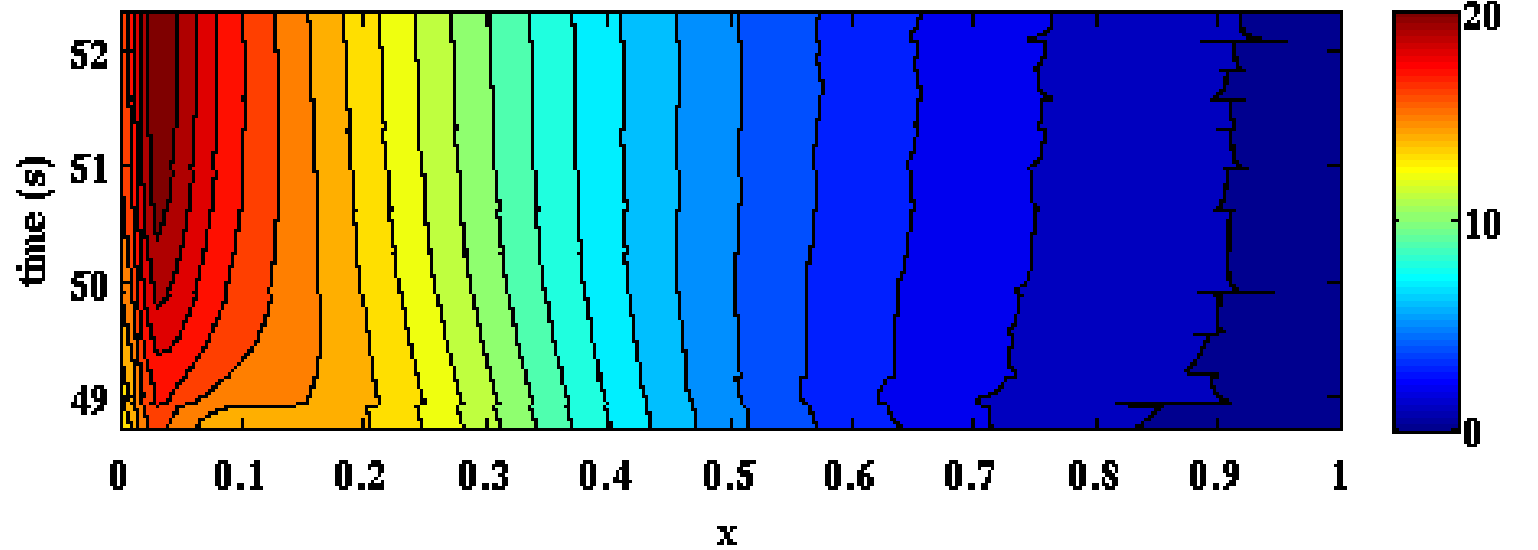
Te (eV), ITM



$\langle J \rangle$  (A/m<sup>2</sup>), CRONOS



$\langle J \rangle$  (A/m<sup>2</sup>), ITM



visualization of edge effect during ITM run on  $\langle J \rangle$

