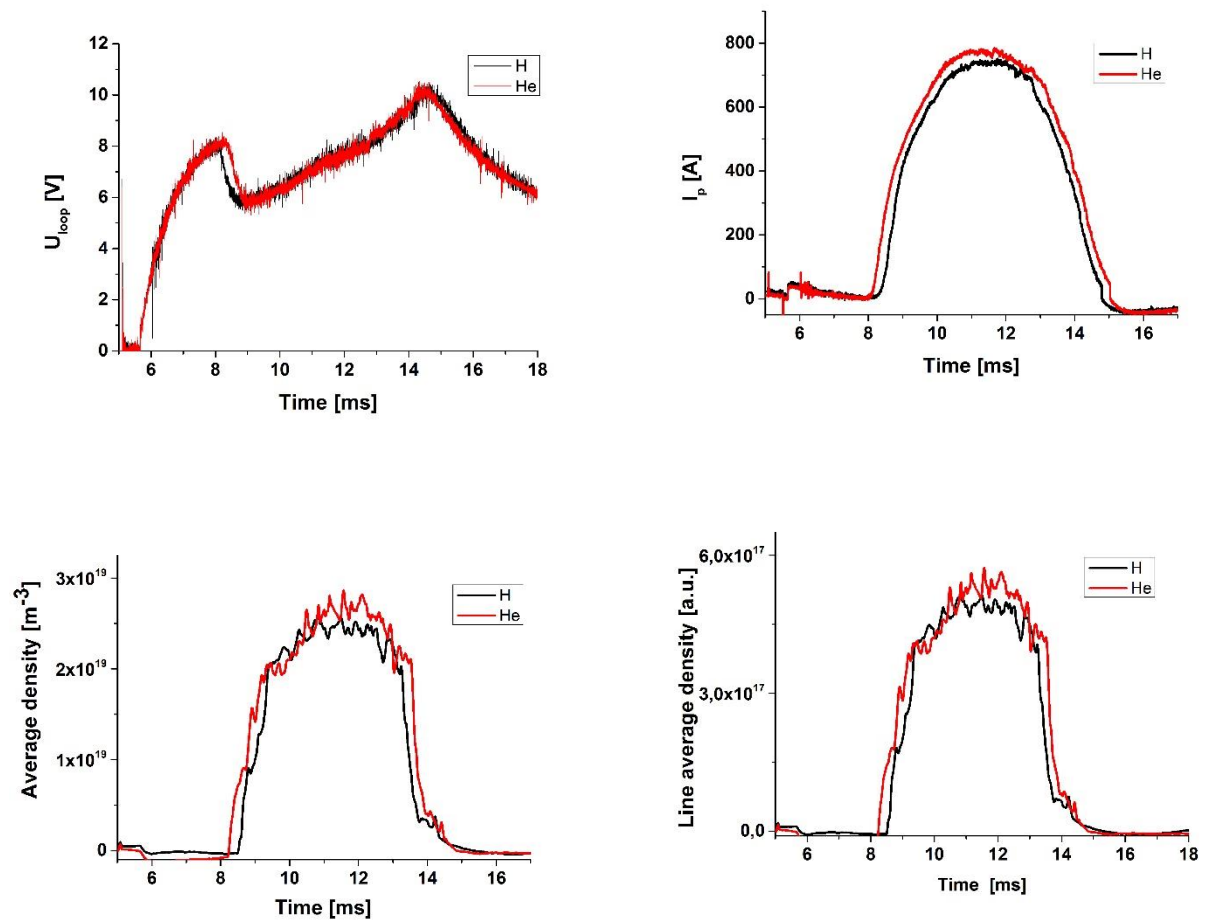


Comparison of Helium and Hydrogen discharges on GOLEM

We compare shots #18824 with Hydrogen as working gas 13.6 mPa with shot #18821 with Helium at filling pressure 14.7 mPa. The other discharge parameters are the same: $U_{BT} = 800$ V, $U_{CD} = 300$ V. The cleaning glow discharge is performed before the He plasmas.

Surprisingly, the temporal evolutions of the main plasma parameters are almost identical as seen from following figures.



The agreement is so good that we suspect that composition of the working gas did not change too much!

What is strange: difference of “line average density” and “average density” signals stored in the GOLEM database. It has to be clarified.

28.3.2015 J Stockel