

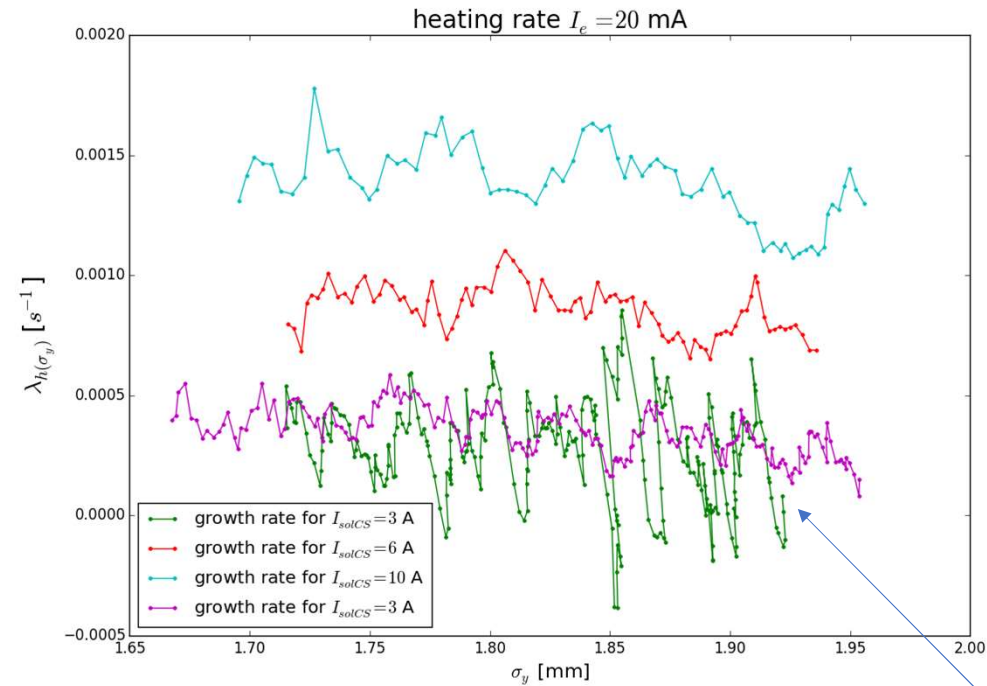
e-i heating studies

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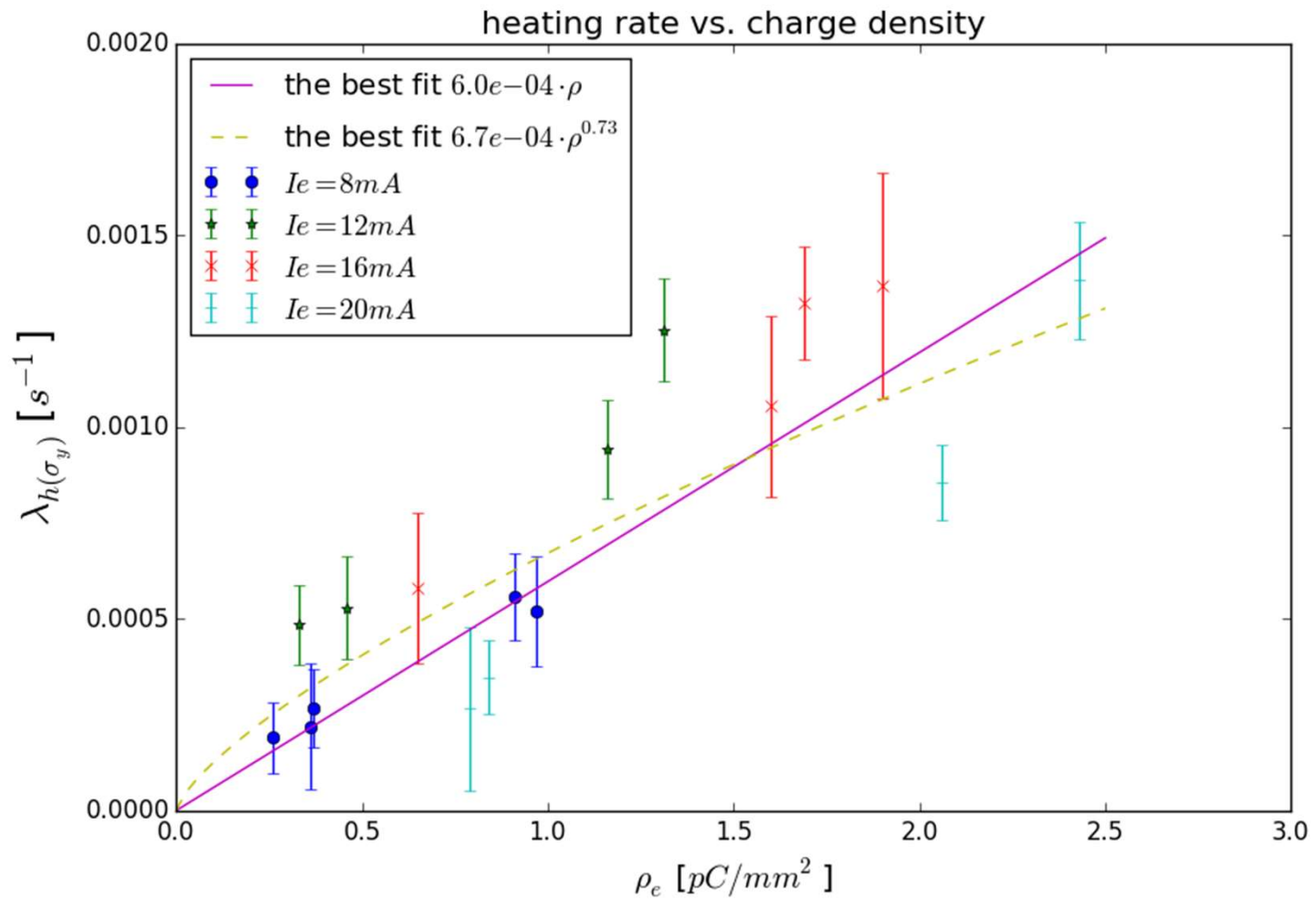
There is a dependence on charge density

After Andrei set the h-jet properly for low intensity measurements (many thanks!) the presence of some density dependence became obvious.

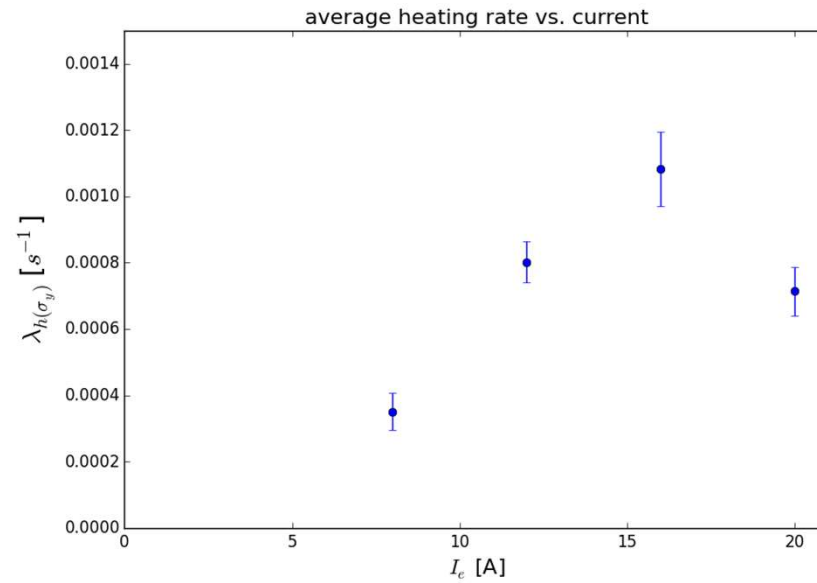


I like this, I think we can trust the h-jet:
Ni was changed by almost a factor of 2!

It seems to be linear



When you have more than three points the linear dependence on e-beam current is broken



Also, we got measurements for two more currents this week

And this week:

- Measurements with two more currents were repeated
- Michiko adjusted the IPM for us to use at low ion intensity (thanks a lot!)
- We measured heating at 3 different currents with CS settings providing the same average charge density
- We tried to reduce/increase the amplitude of the fast e-trajectory oscillations by varying the laser size on the aperture.