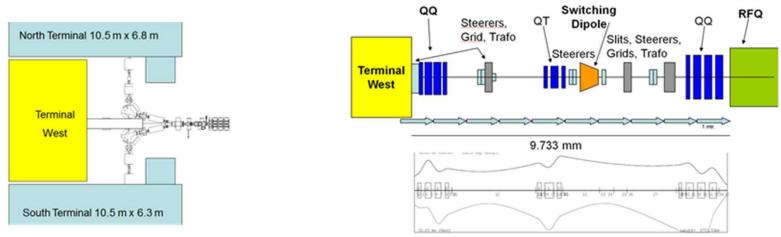
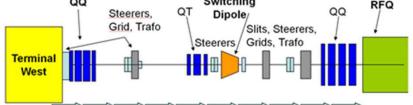
Compact-LEBT – Status

- Design of the LEBT in progress, "preferred" solution proposed, other solutions under investigation.
- Preferred solution: Length appr. 9.7 m, two focusing magnets up to switching magnet (quadrupole/solenoid not yet decided): Appropriate for various alternative scenarios of RFQ (unchanged or redesigned), adjustable for various beam emittances from ion source.
- Measurements at North terminal with Uranium und Tantalum June-October 2013, used for simulations for proposed LEBT-design!



Design of the LEBT

Design: "Ion Source - Quadrupole Quartet - beam diagnostics quadrupole triplet - switching magnet - beam diagnostics quadrupole quartet - HSI".

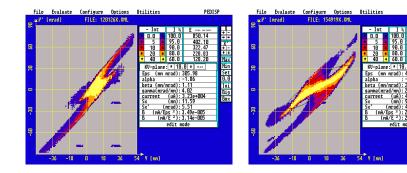


Latest proposal: Use existing quartet before RFQ, and new quartet behind source, save money as a cheaper power supply can be used. Alternatively: existing sc solenoid could be used, additional simulations.

Measurements of uranium beam emittance directly at North Terminal, Oct. 2013. HOSTI-Emittance Measurement Device at North Terminal,

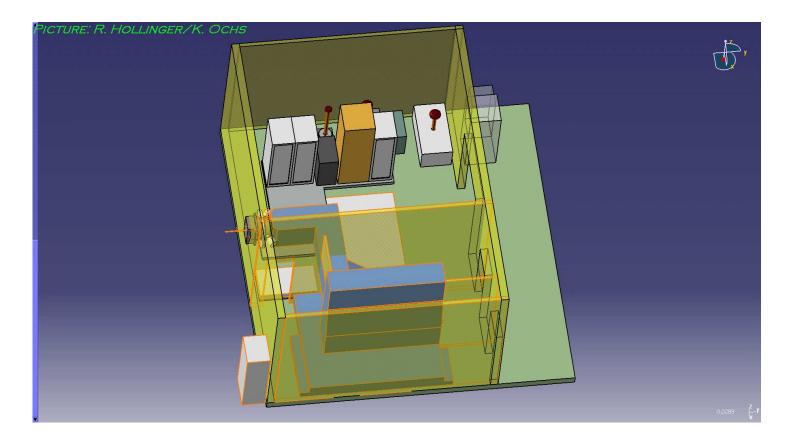


Results for medium and high uranium current (35 nmA, 55 mA)



Terminal West

- Dedicated Terminal exclusively for uranium beam
- General layout exists (LOIS)
- Integrated service area
- All power supplies integrated in the Faraday room
- No extension within the basement, only ground floor



Schedule Compact-LEBT

	2014			2015				2016				2017				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Integration Terminal West in BH1																
Design Terminal West																
Procurement terminal and components																
Design LEBT																
Procurement LEBT components																
Terminal assembly																
Installations in terminal																
LEBT assembly																
Commissioning																