

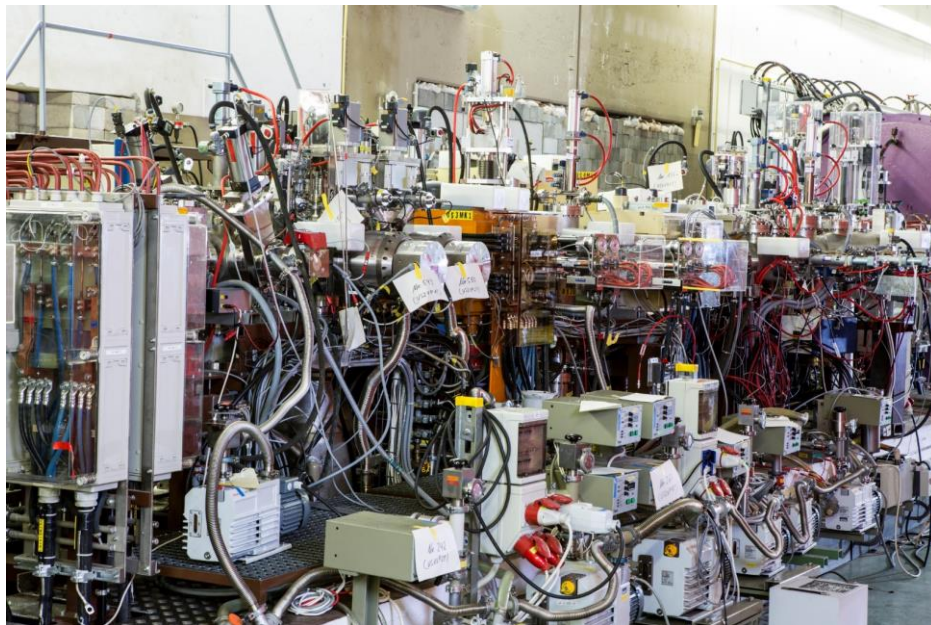
(Heavy) Ion Beam Transport Systems & Advanced Beam Dynamics Code Development

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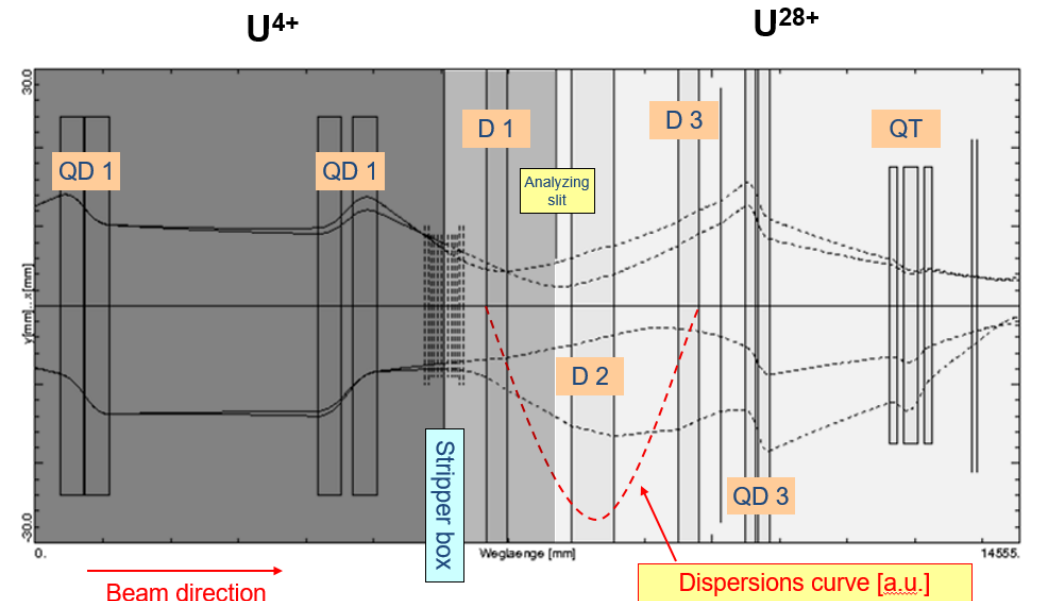
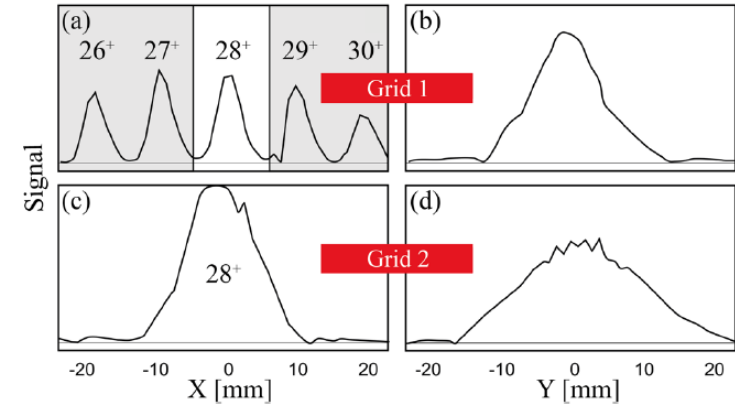
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- Advanced beam transport concepts

- Charge stripping and charge separators
- Compact LEBT, MEBT and HEBT-systems
- Beam scraping concepts



GSI-1.4 MeV/u stripping section

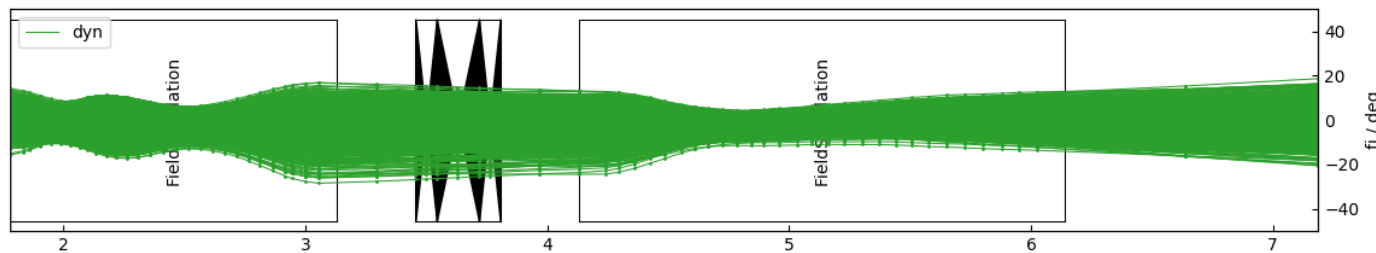
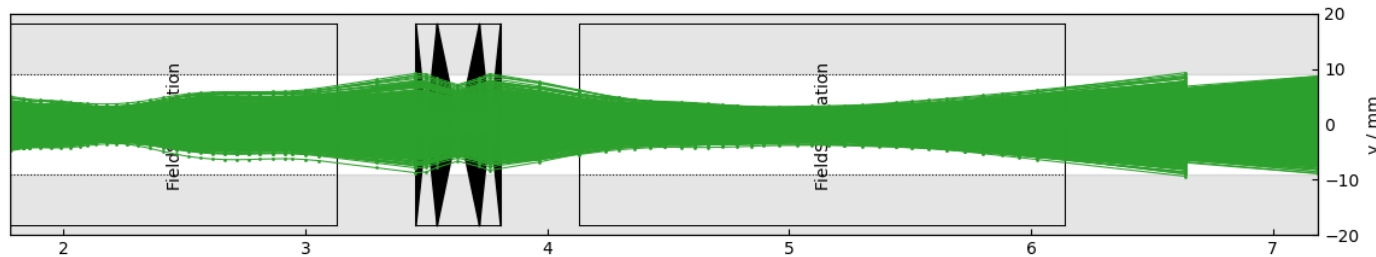


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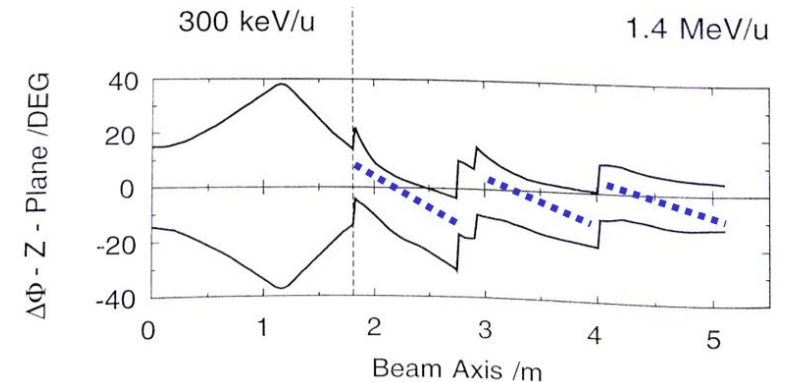
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- Linac-beam dynamics concepts (APF, EQUUS, KONUS, ...) (W. Barth)

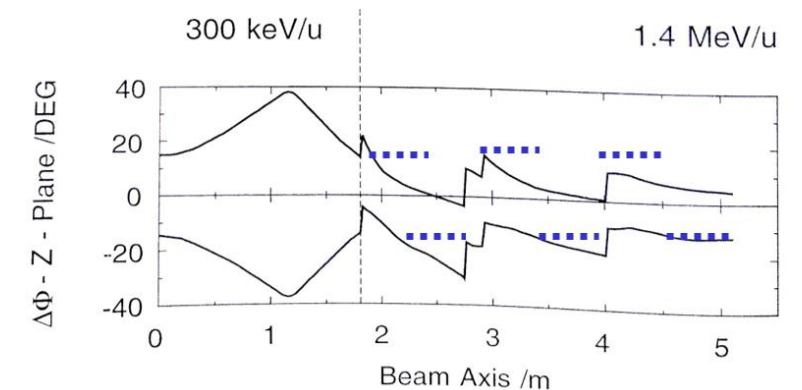


courtesy: S. Lauber (GSI, HIM, JGU)



Source: Habil. U. Ratzinger, p.183

Interesting: This is a F D F D lattice in all phase planes.



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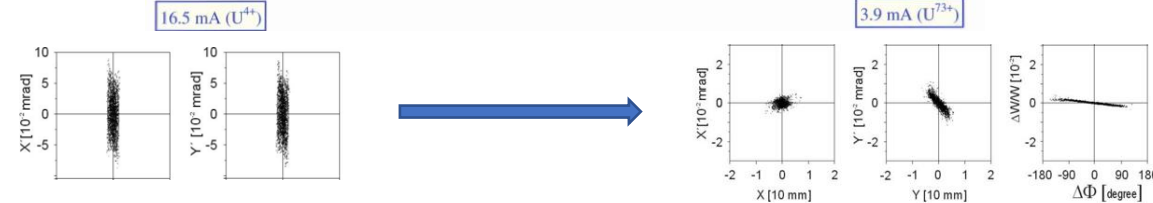
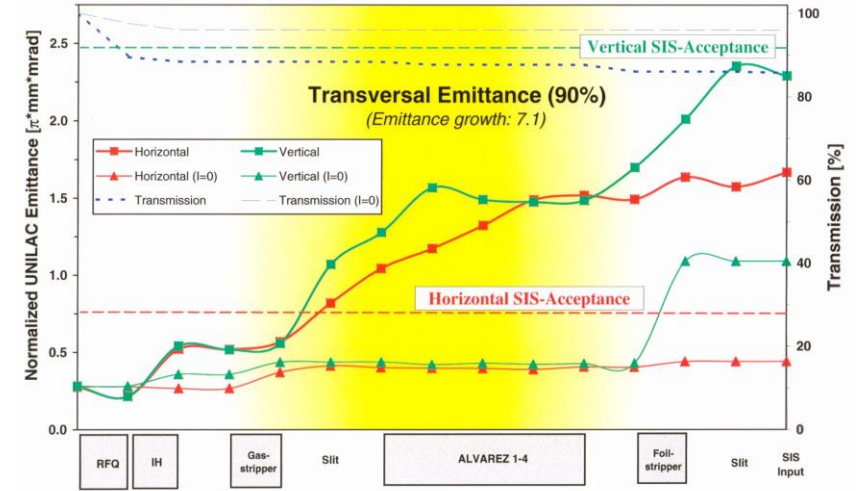
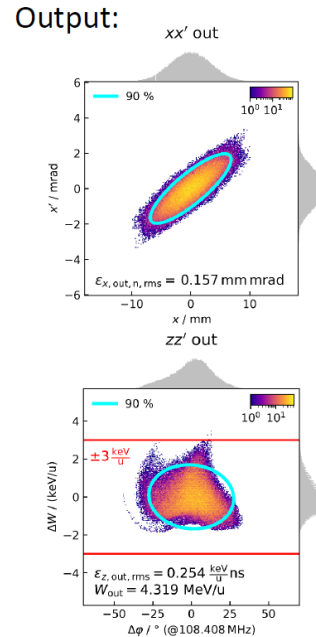
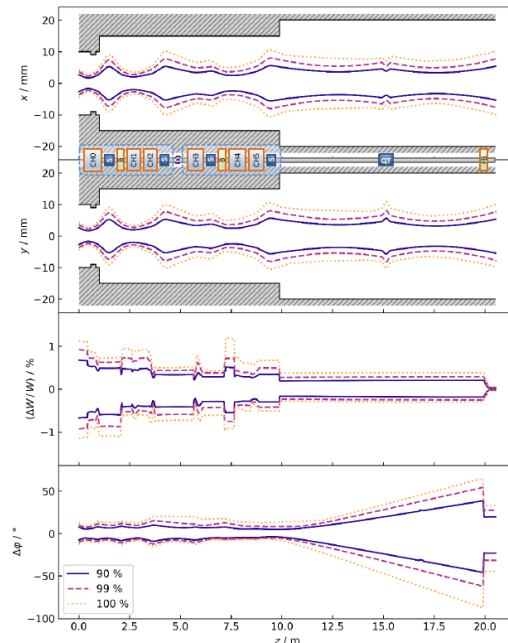
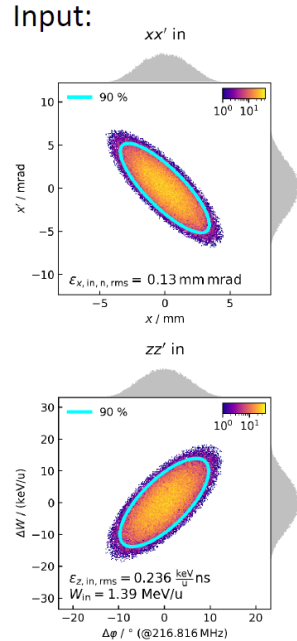
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- Comprehensive Front to End simulations (for heavy ion linacs) (W. Barth)

(superconducting) cw-Linac

Pulsed heavy ion high current injector Linac (UNILAC)



courtesy: M. Schwarz (GUF)

Funding request: 1 doctorand position, 100 k€