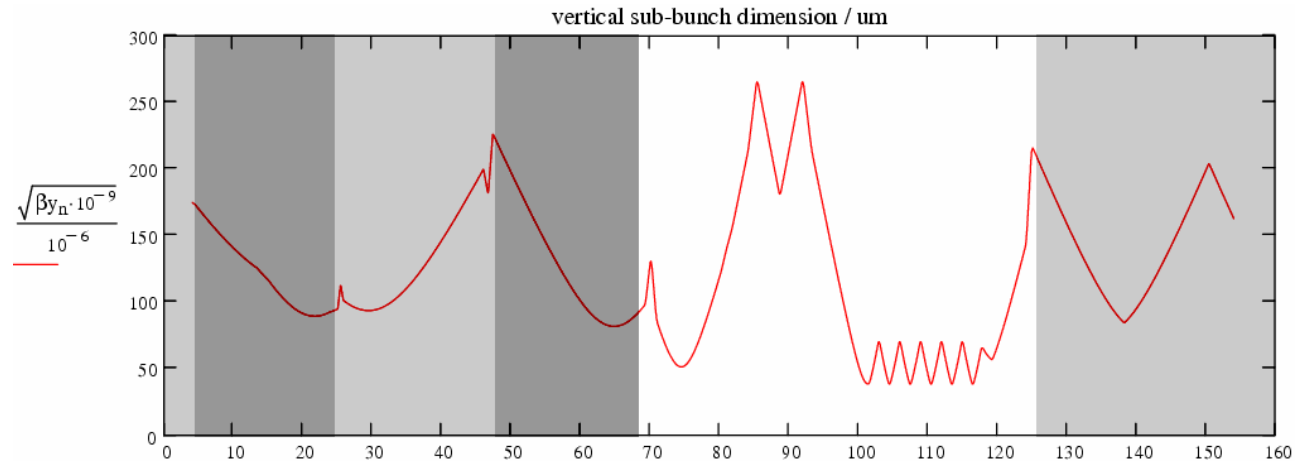


CSRtrack without forces

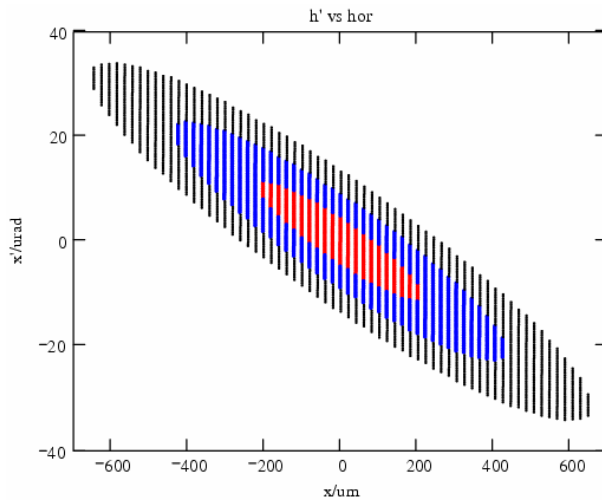
CSRtrack green's

Gaussian distribution
 $E = 511\text{MeV}$, $\varepsilon = 10^{-9}$
 $\sigma = 2\text{ mm}$, $q = 0.83\text{ nC}$
 energy chirp

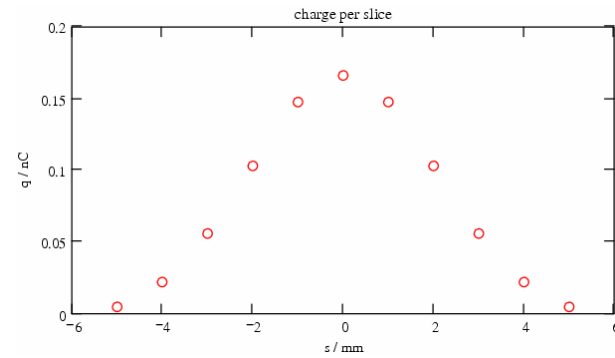
$\sigma = 20\ \mu\text{m}$
 $I_{\text{peak}} = 5\text{ kA}$



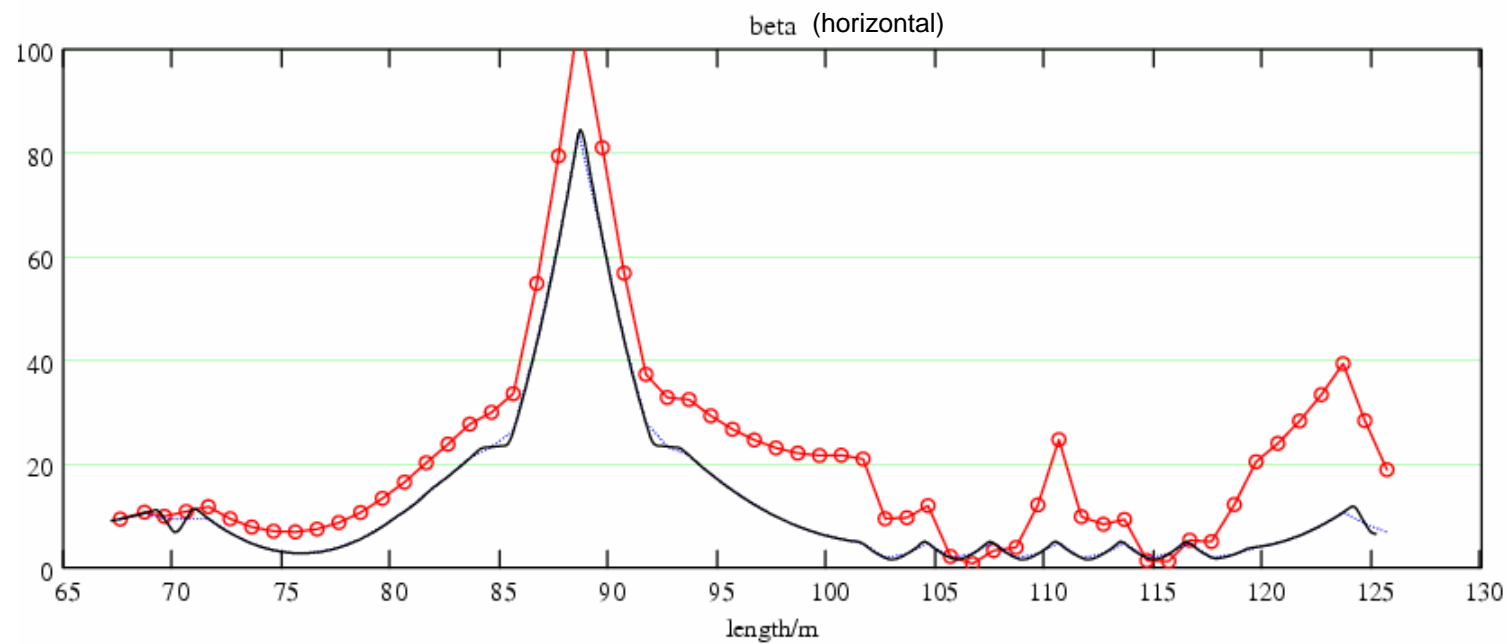
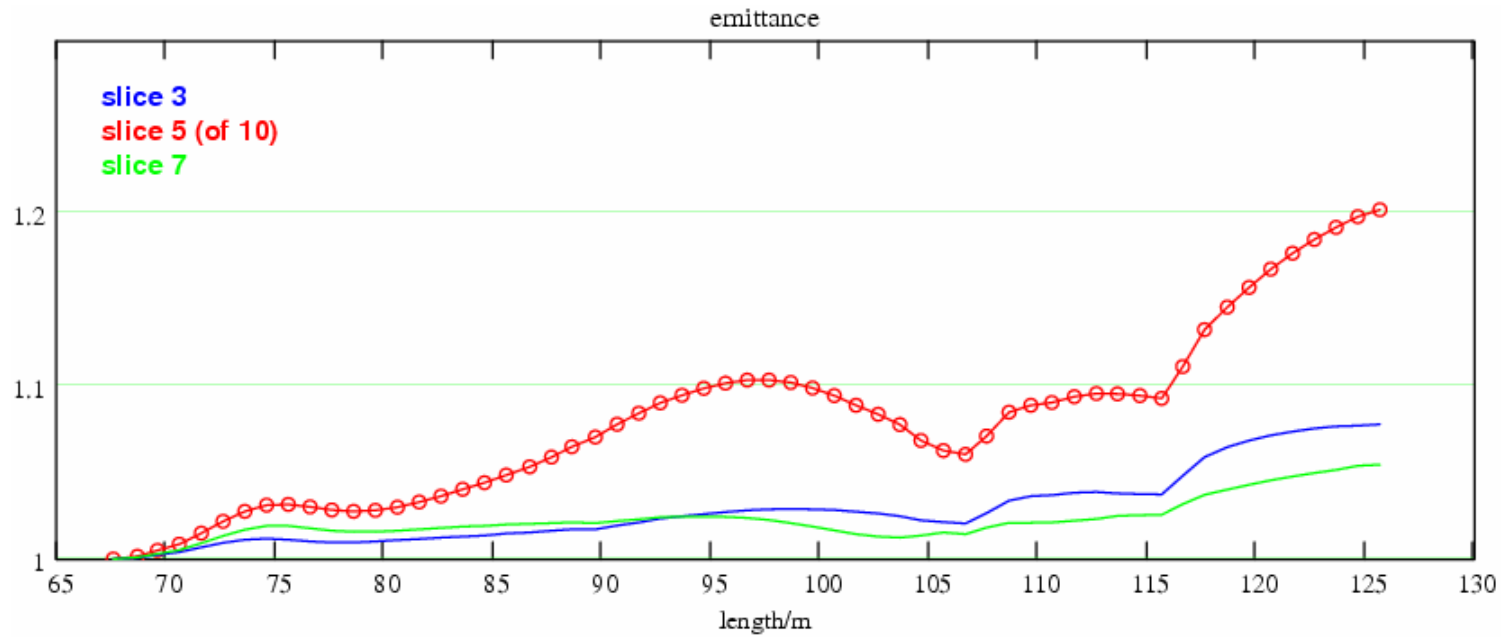
horizontal distribution:
at entrance of bc1
(3445 subb./slice)



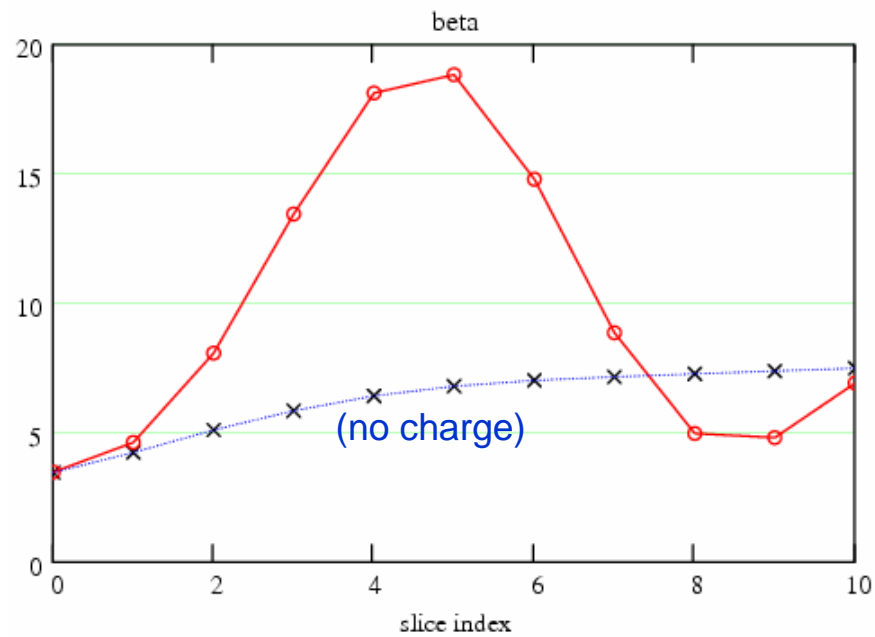
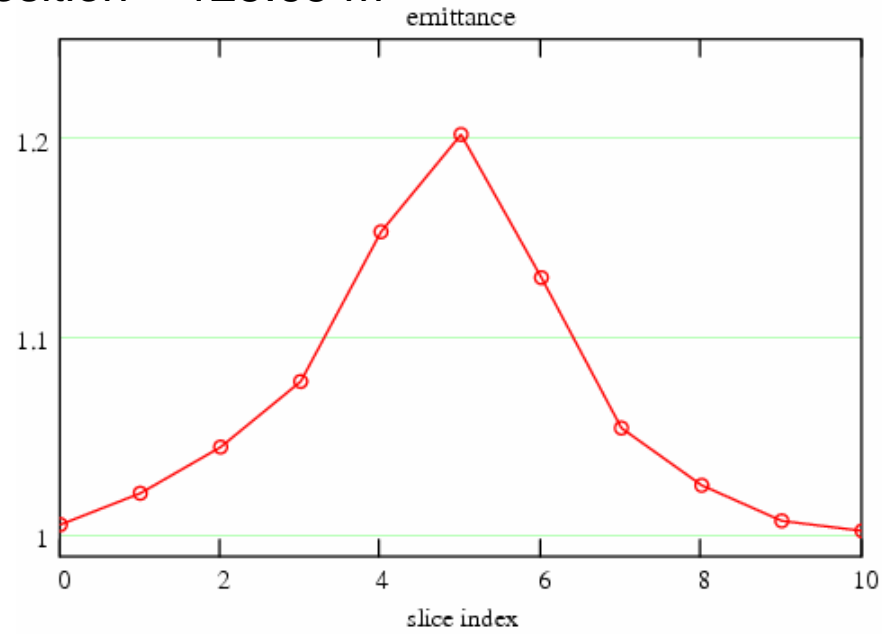
longitudinal distribution:
gaussian, $q = 0.83\text{nC}$
11 slices (0...10), 6σ
linear energy chirp



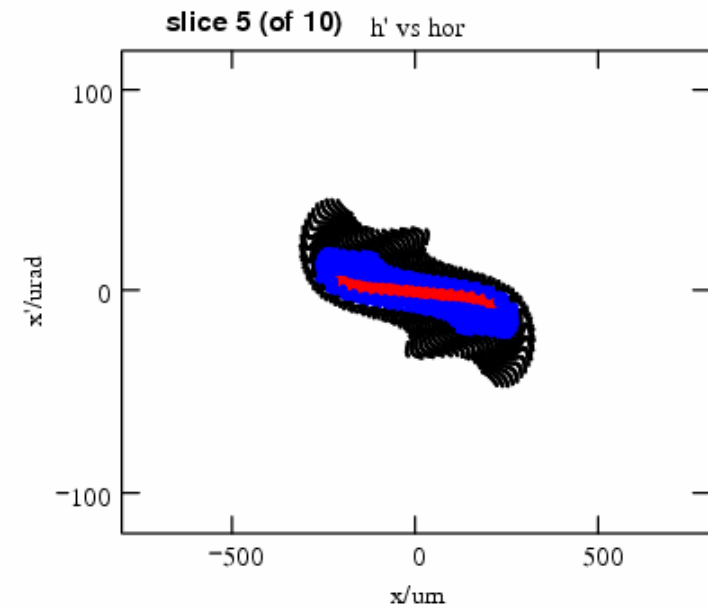
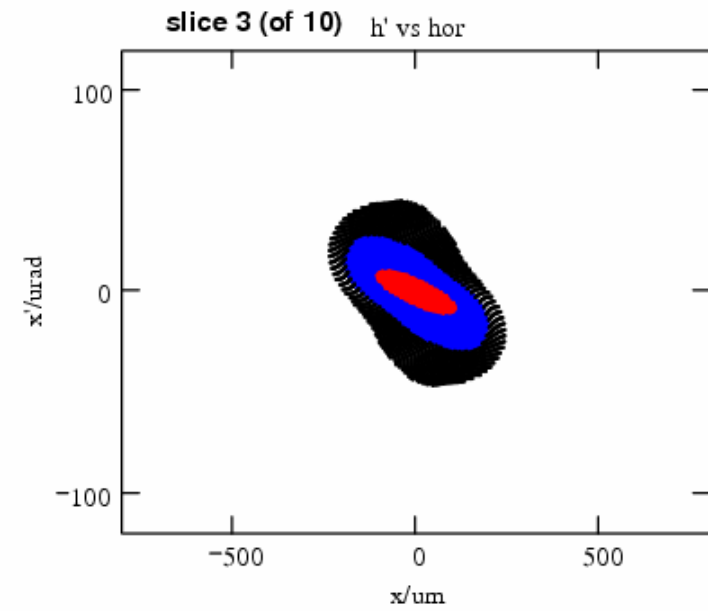
total: 37895 particles



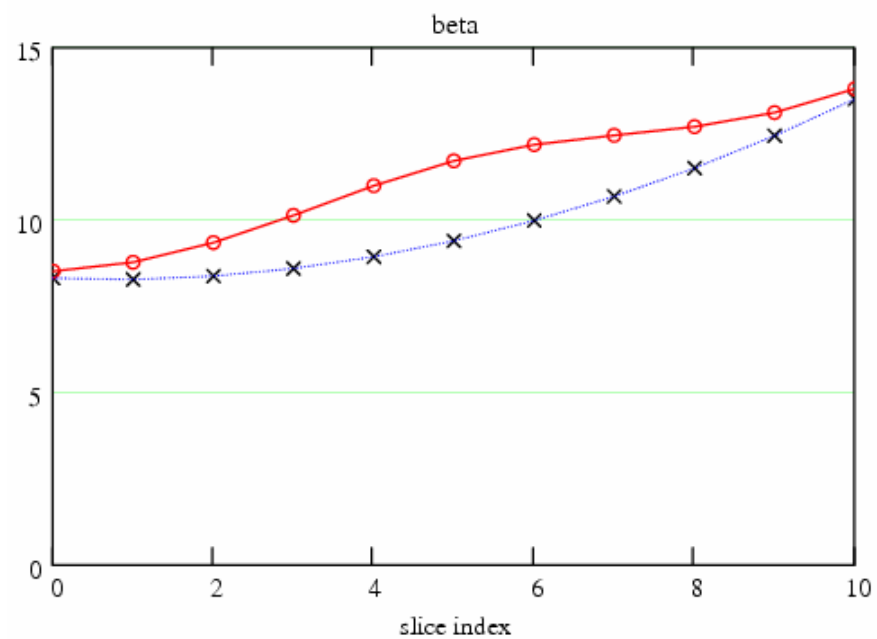
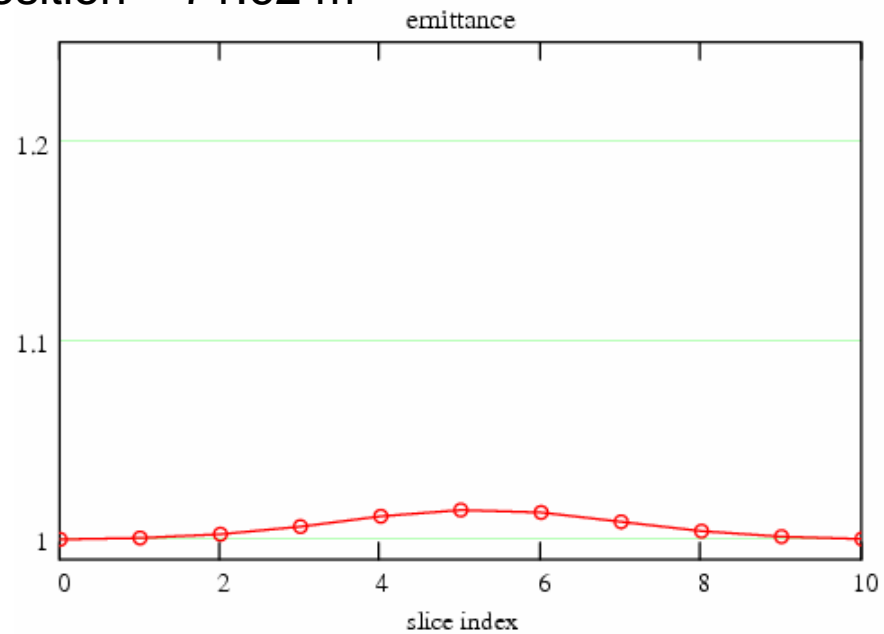
position = 125.65 m



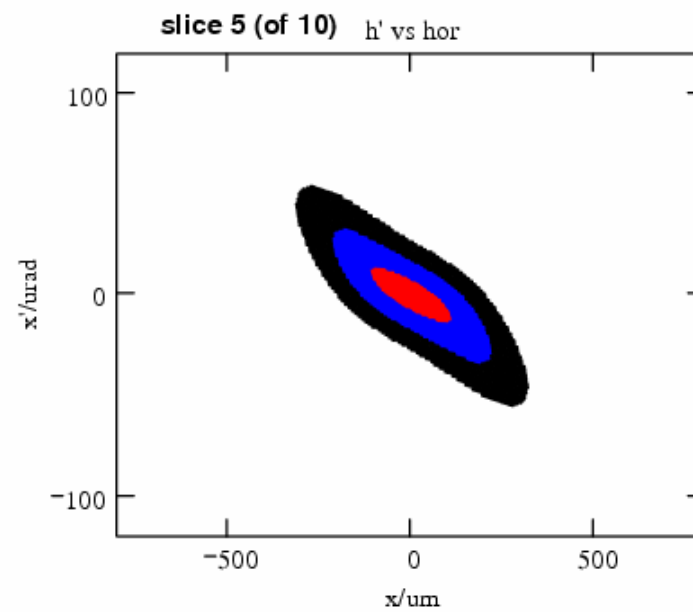
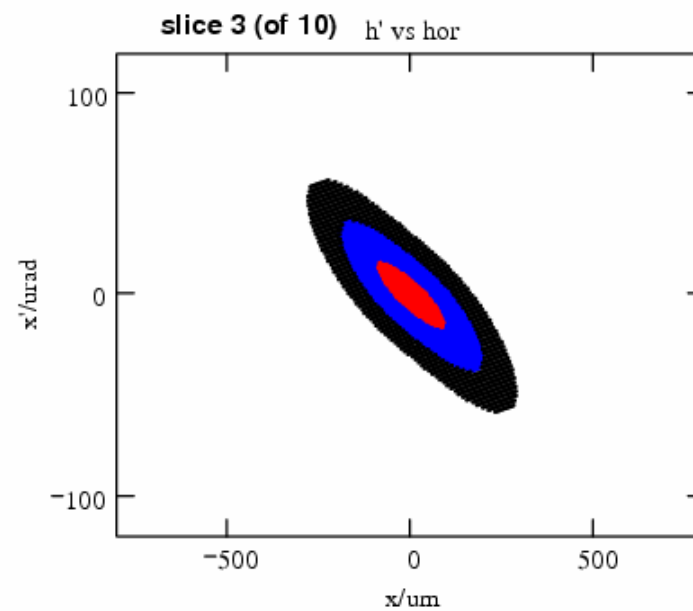
pos = 125.651



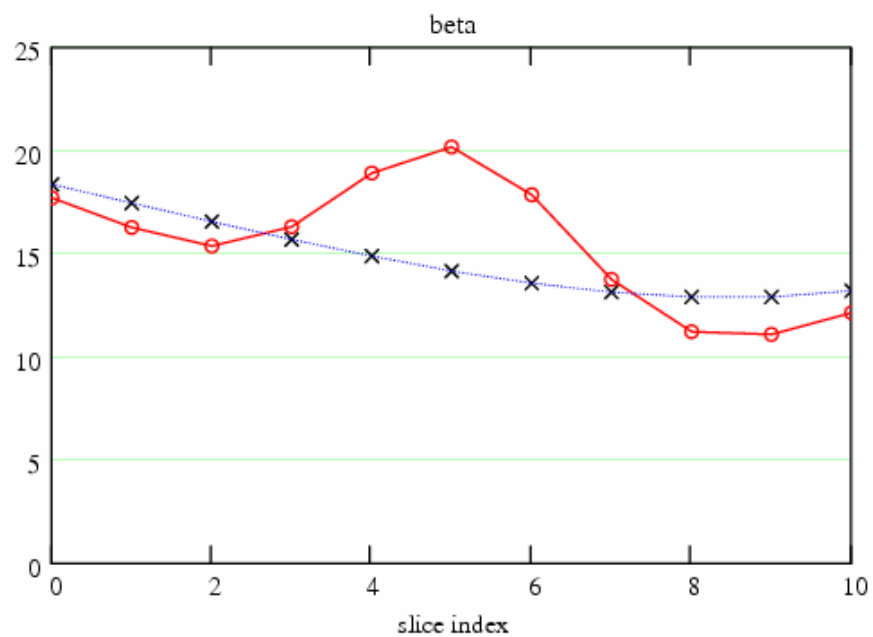
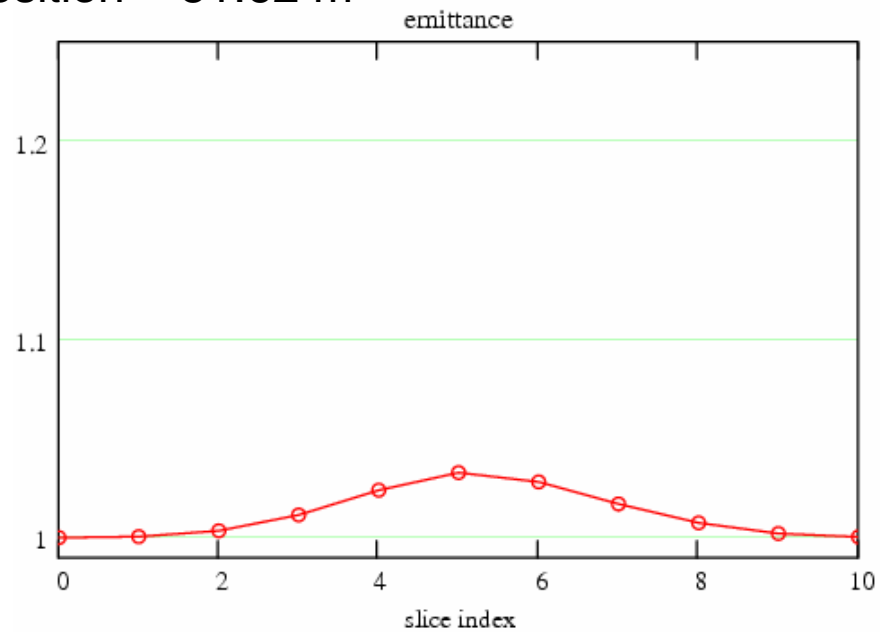
position = 71.62 m



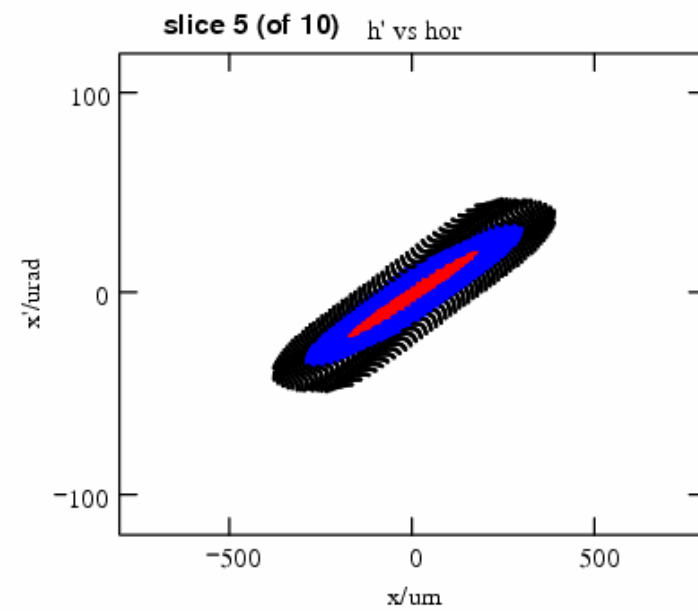
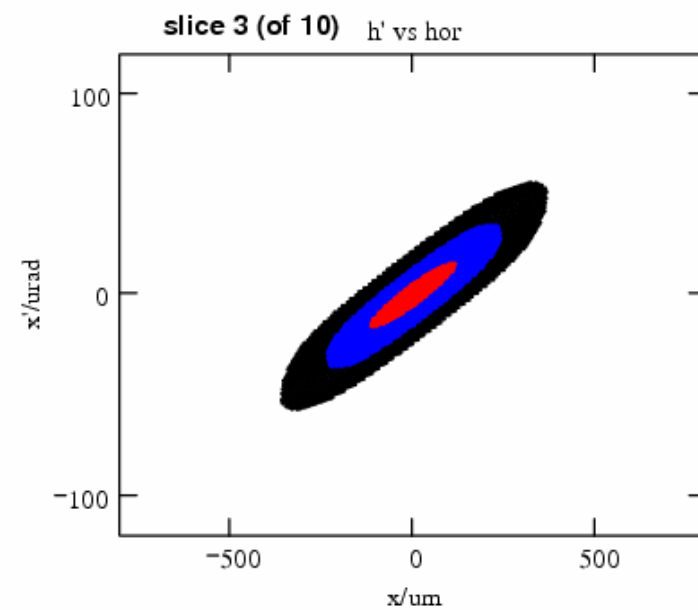
pos = 71.622



position = 81.62 m

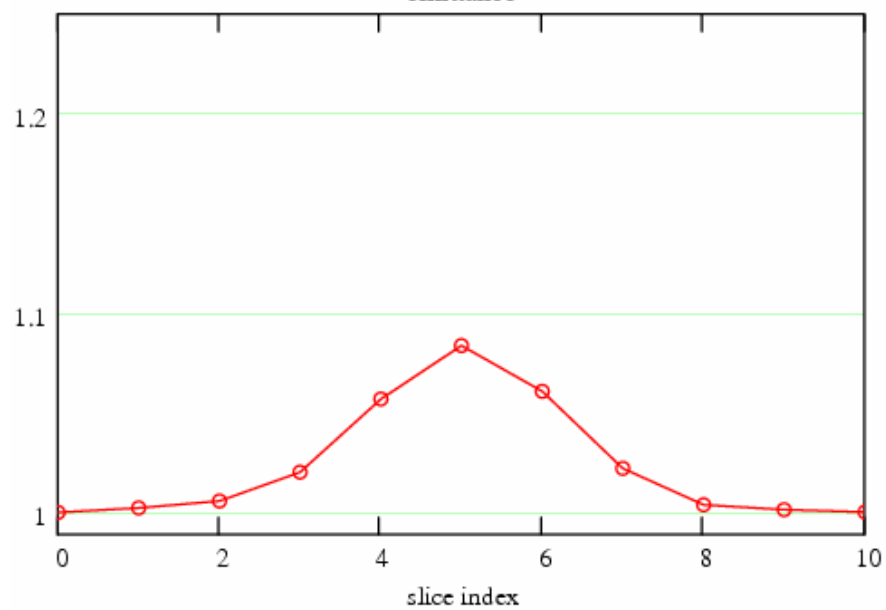


pos = 81.61



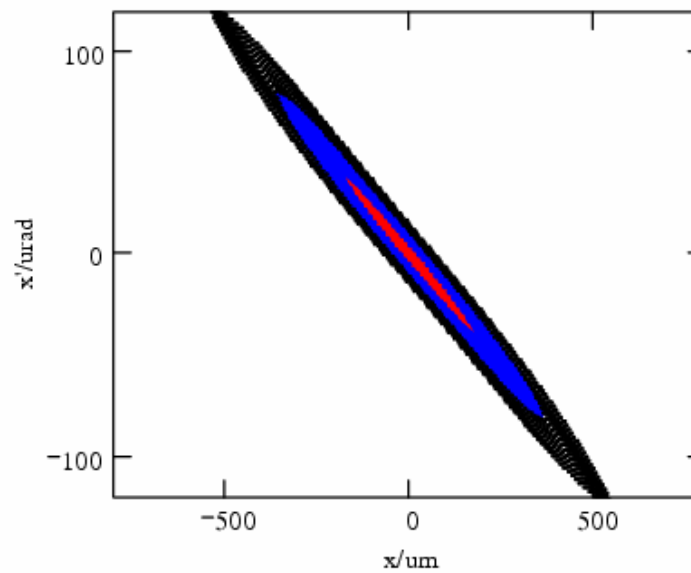
position = 91.62 m

emittance

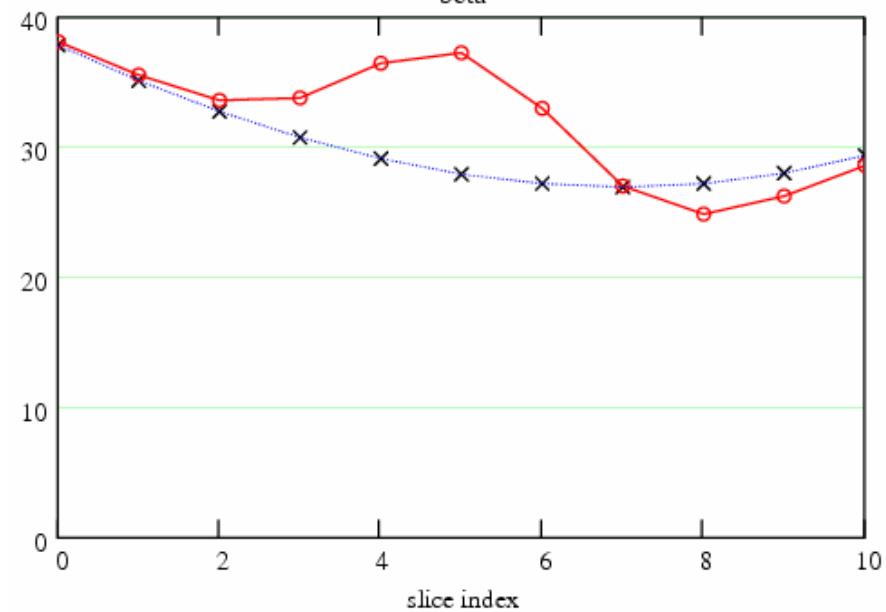


pos = 91.678

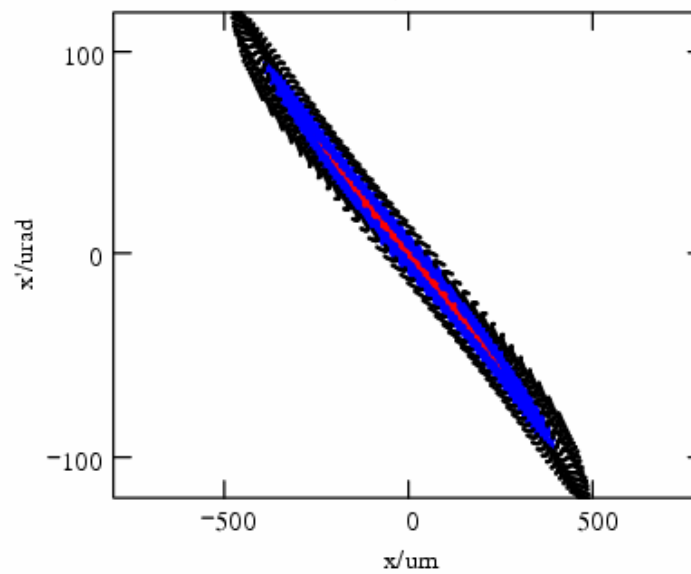
slice 3 (of 10) h' vs hor



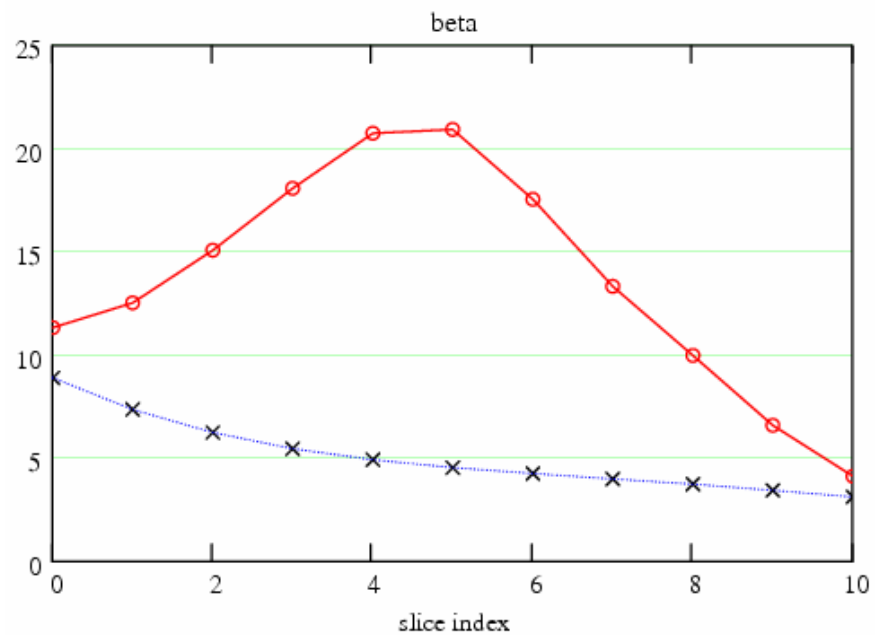
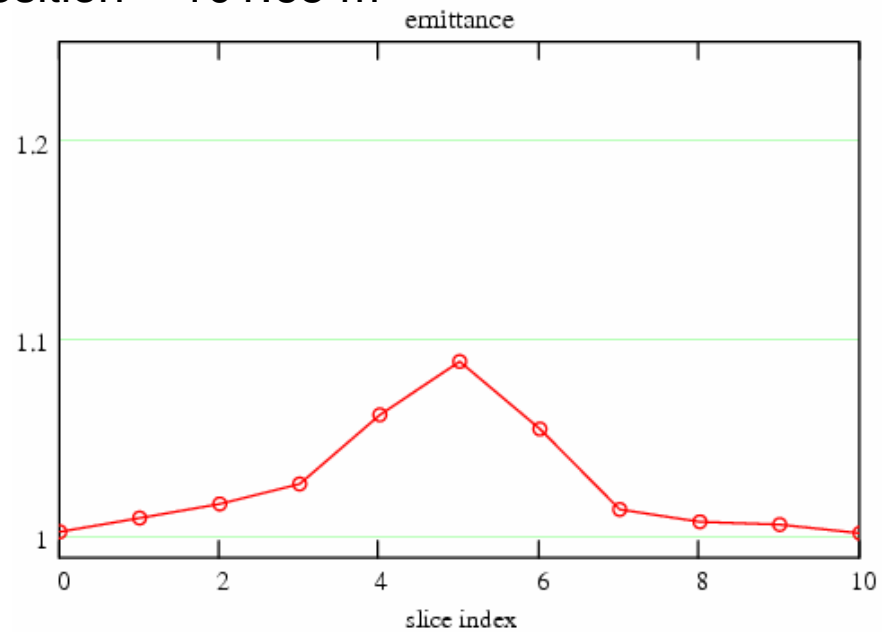
beta



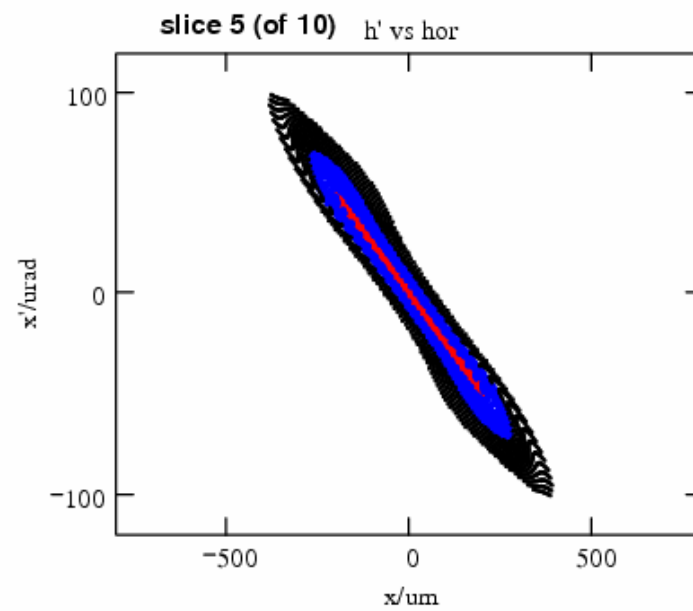
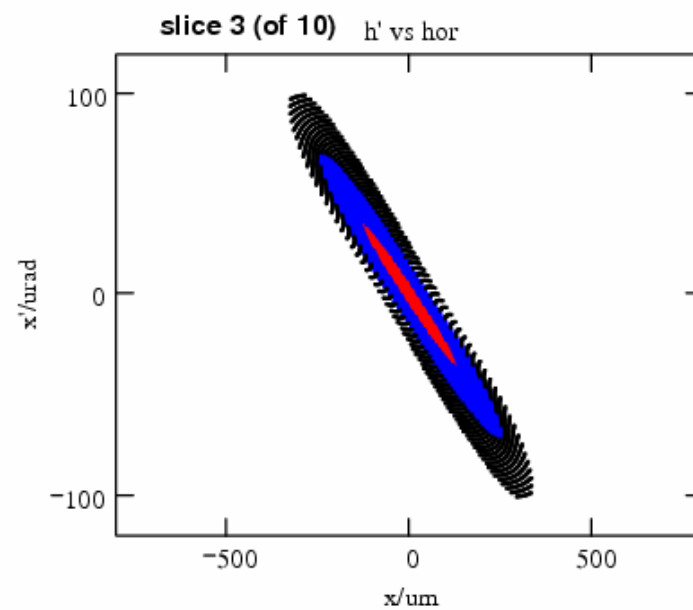
slice 5 (of 10) h' vs hor



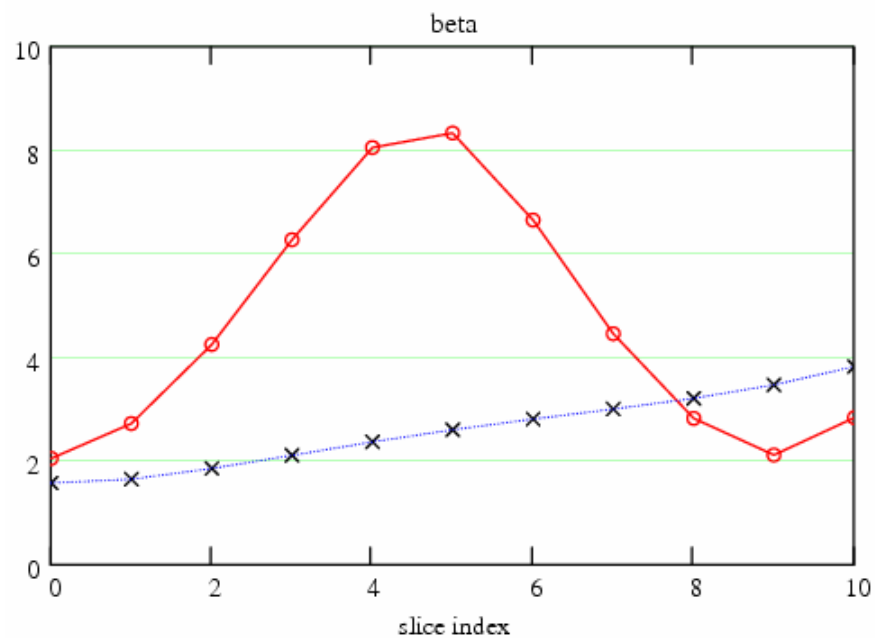
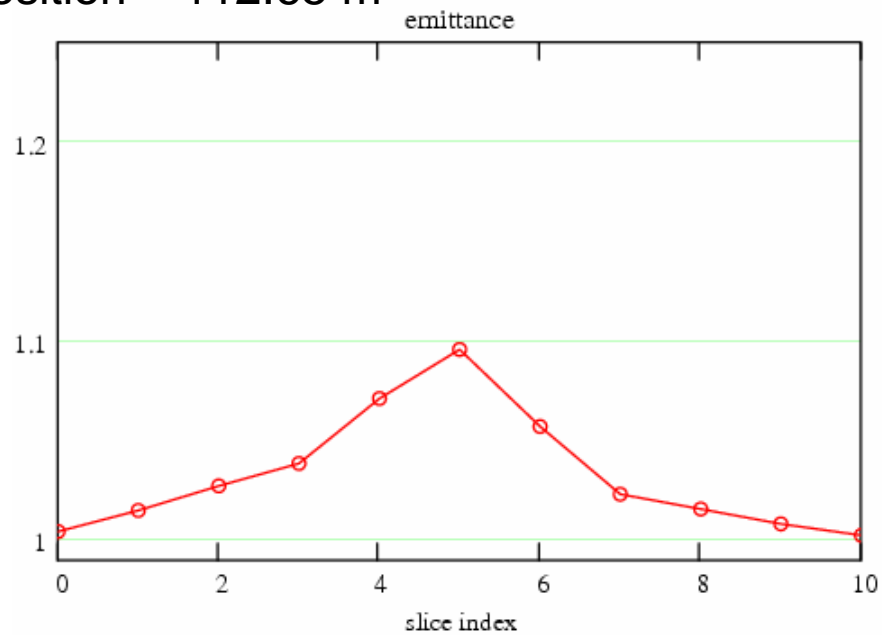
position = 101.65 m



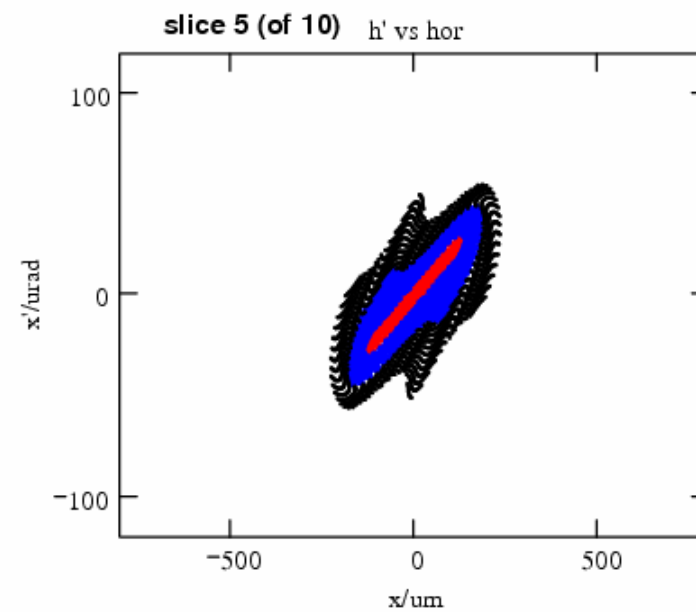
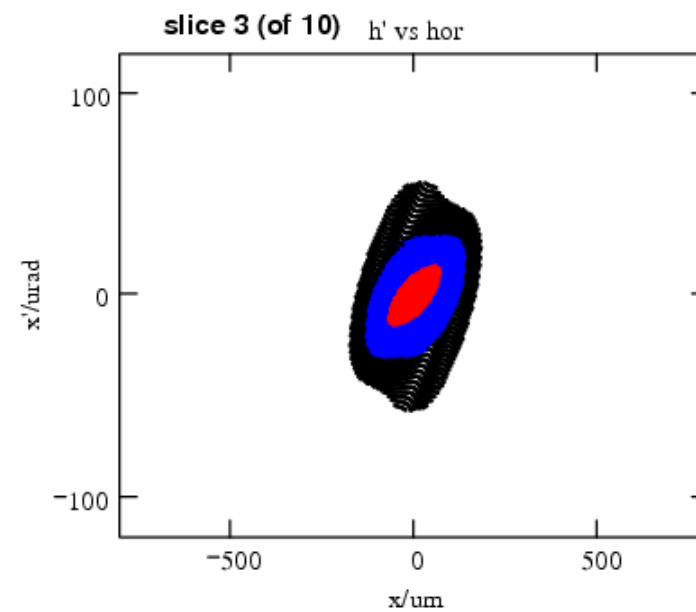
pos = 101.647



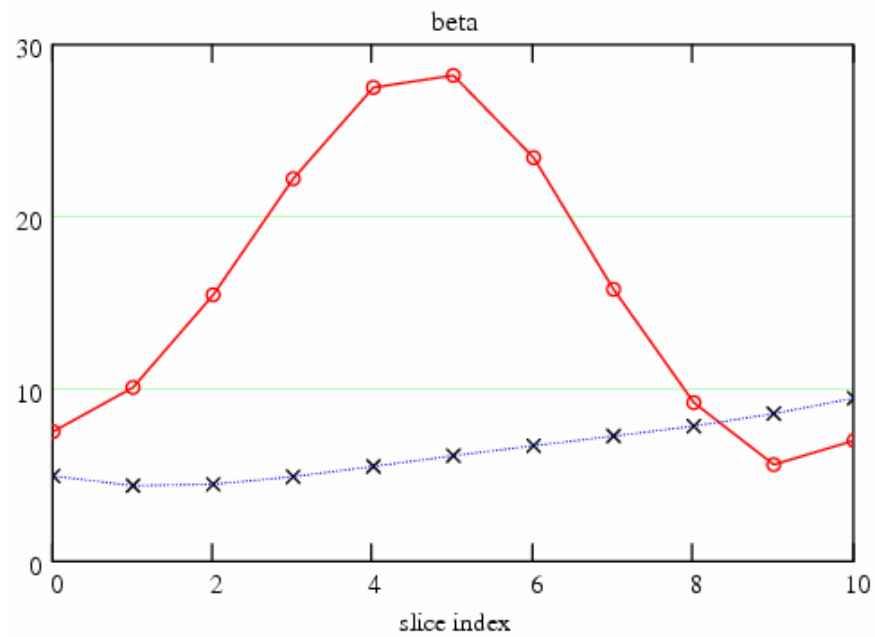
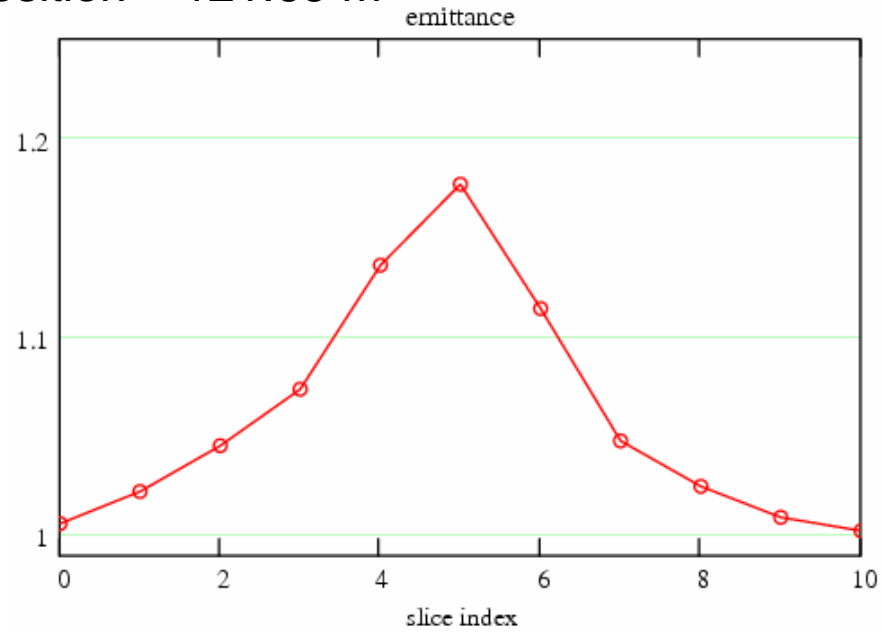
position = 112.65 m



pos = 112.652



position = 121.65 m



pos = 121.654

