

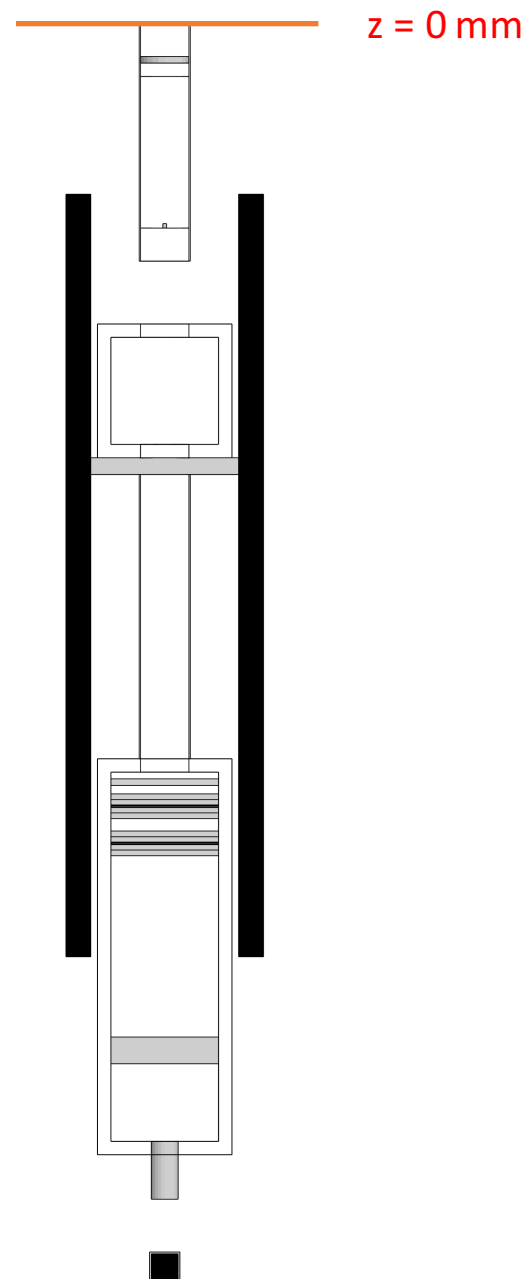
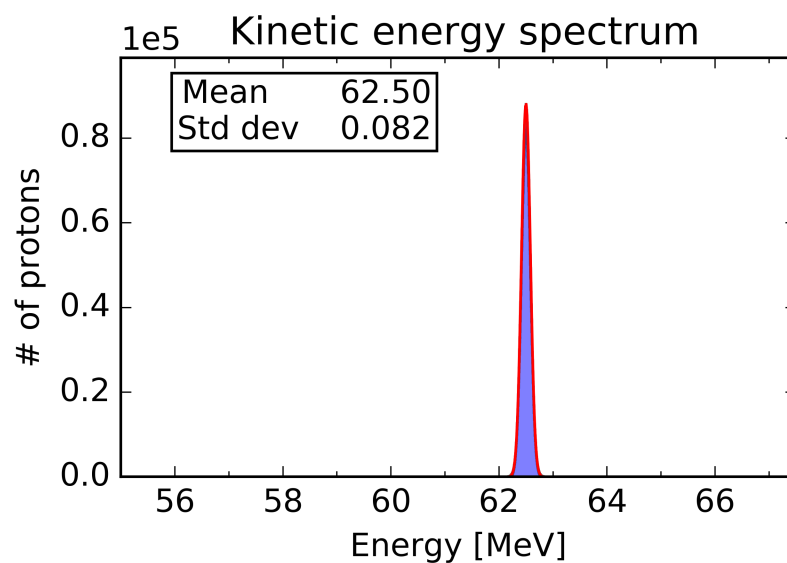
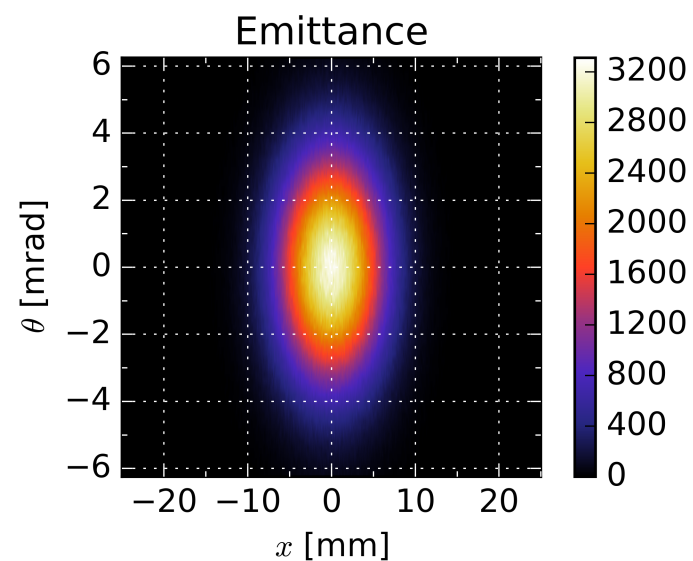
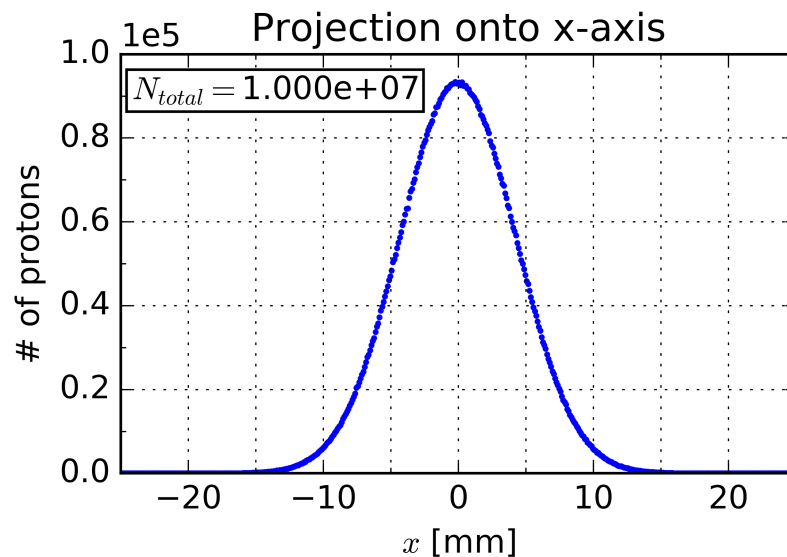
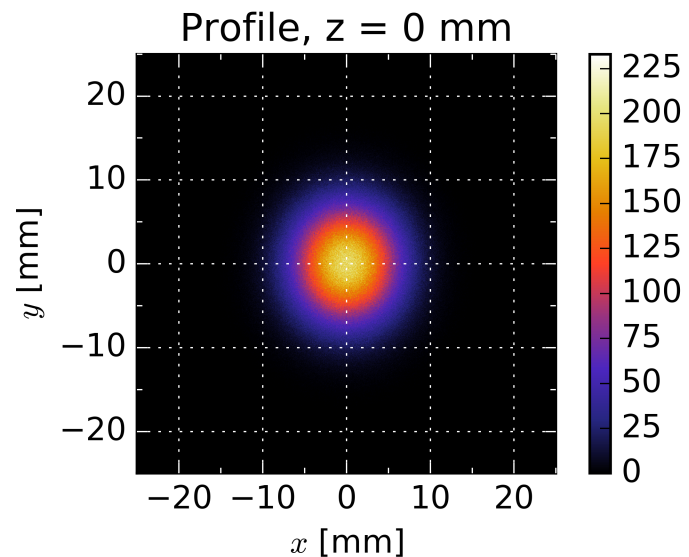
Beamline characterisation

M. Hentz, 15/03/2016

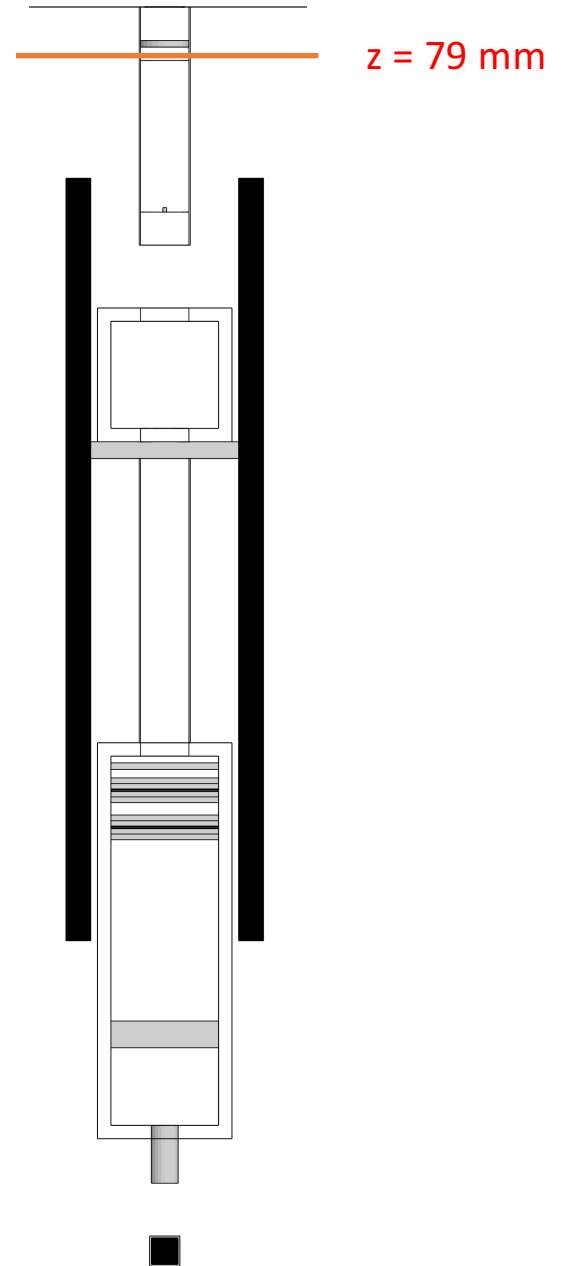
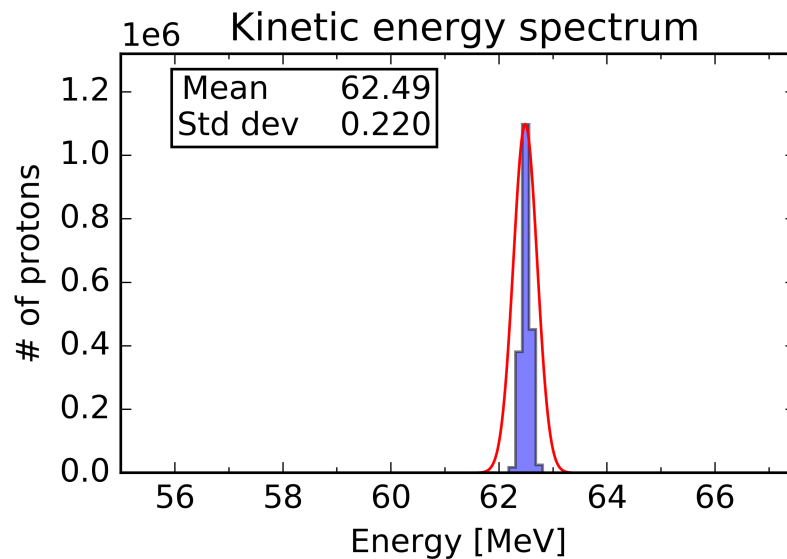
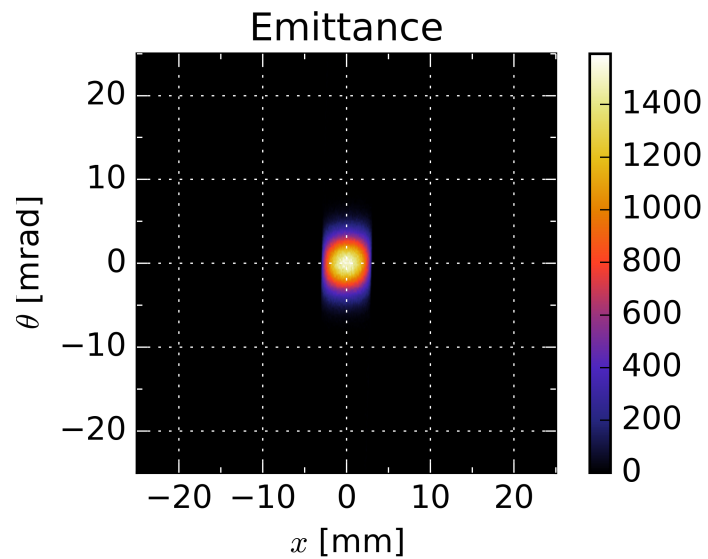
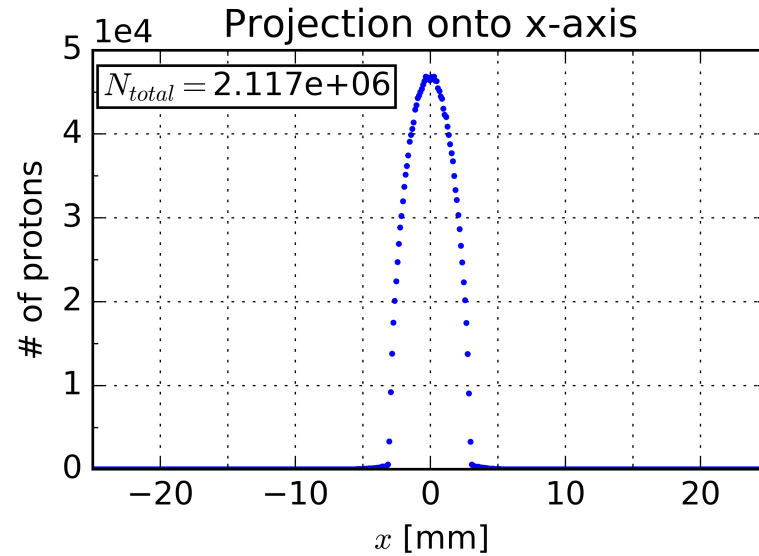
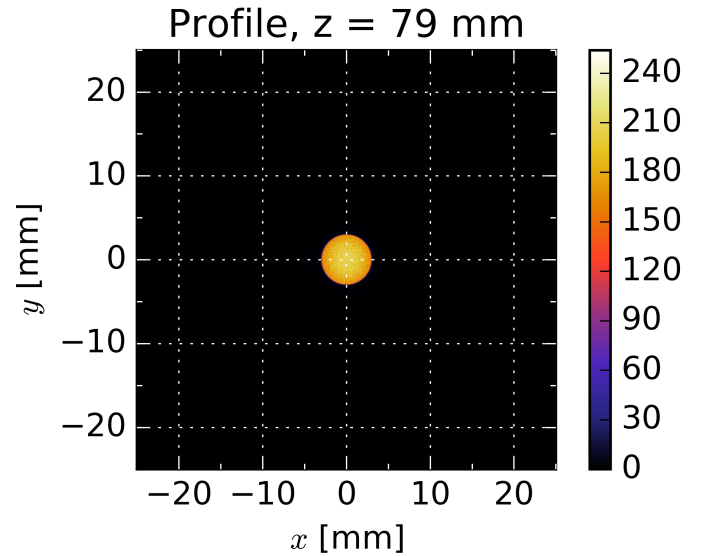
Parameters

- 10e6 protons at 62.5 ± 0.082 MeV
- Spatial source distribution:
 - /gps/pos/shape Circle
 - /gps/pos/radius 3 mm
 - /gps/pos/sigma_x 4.0 mm
 - /gps/pos/sigma_y 4.5 mm
- Angular distribution:
 - /gps/ang/type beam2d
 - /gps/ang/sigma_x 2.3 mrad
 - /gps/ang/sigma_y 1.2 mrad

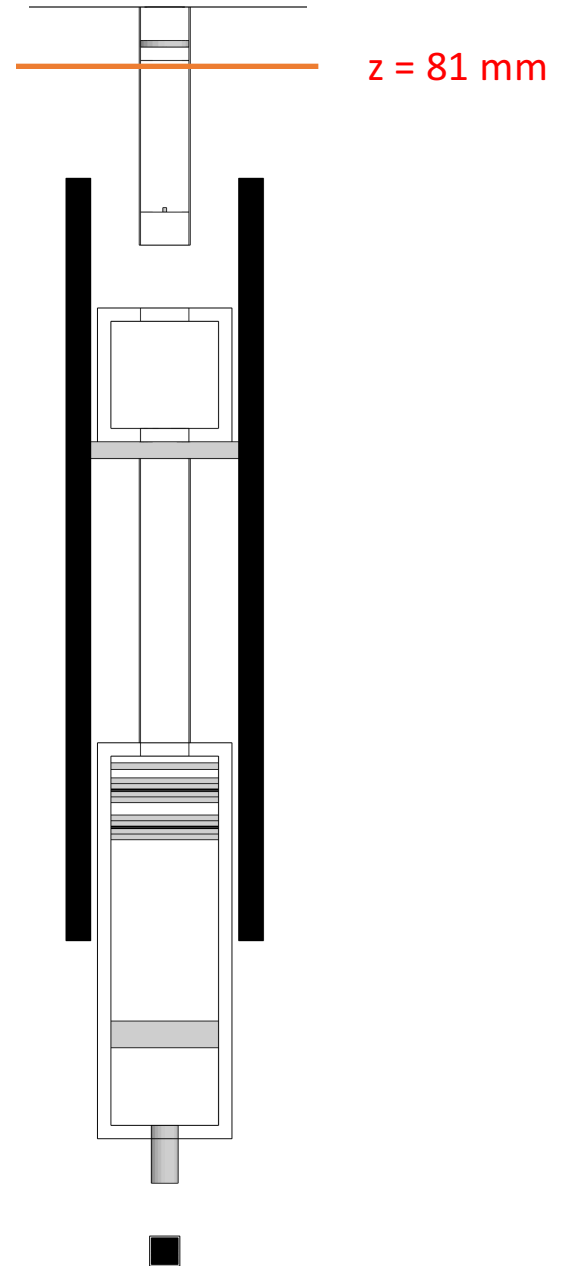
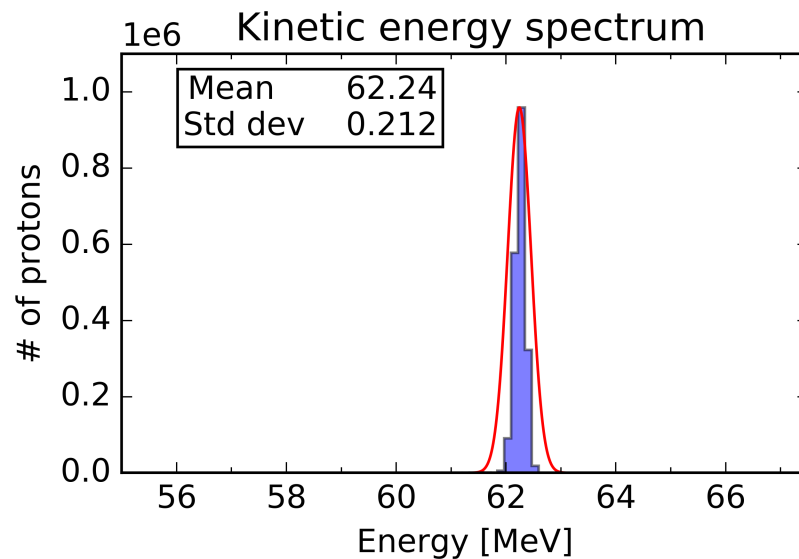
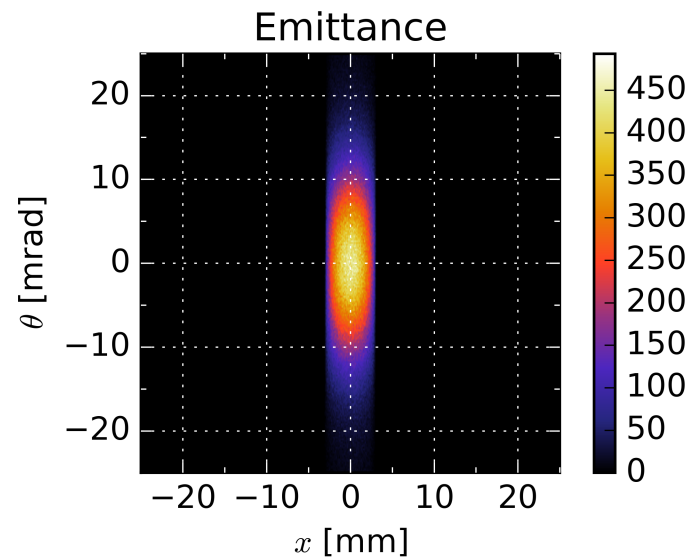
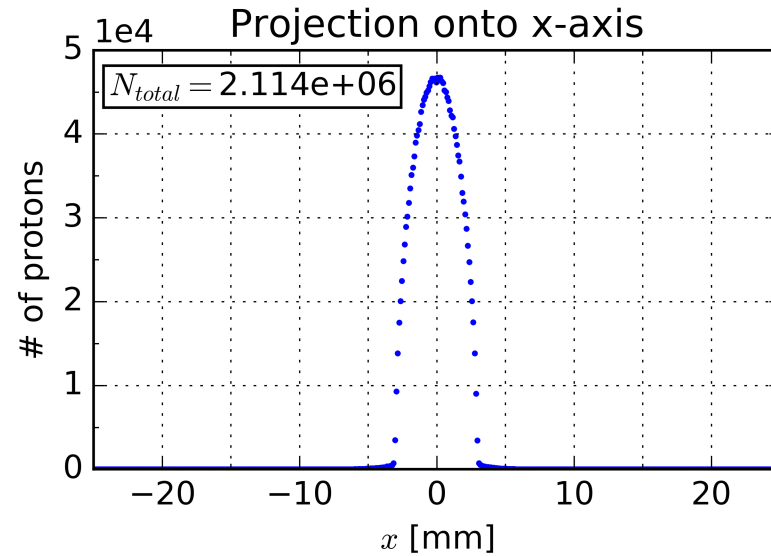
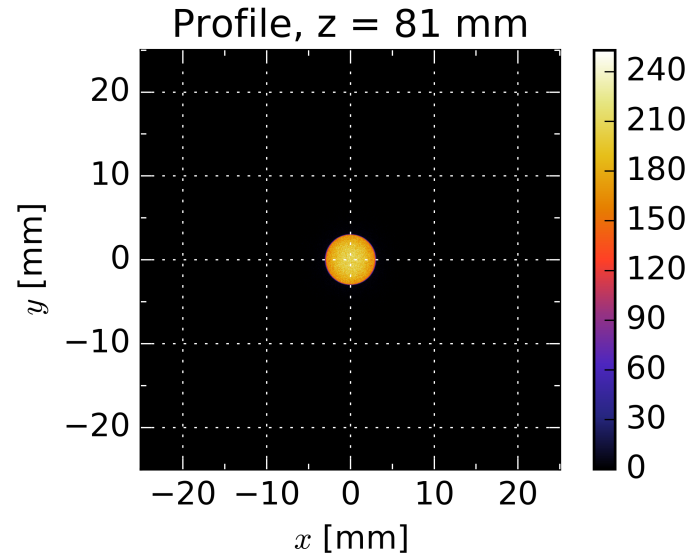
Source



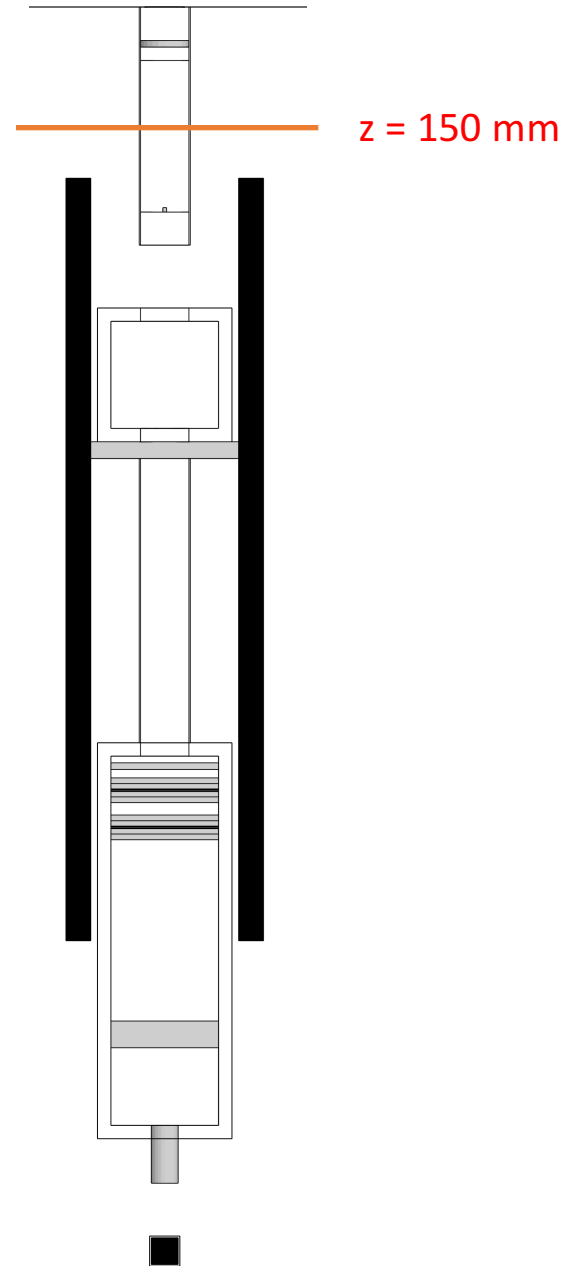
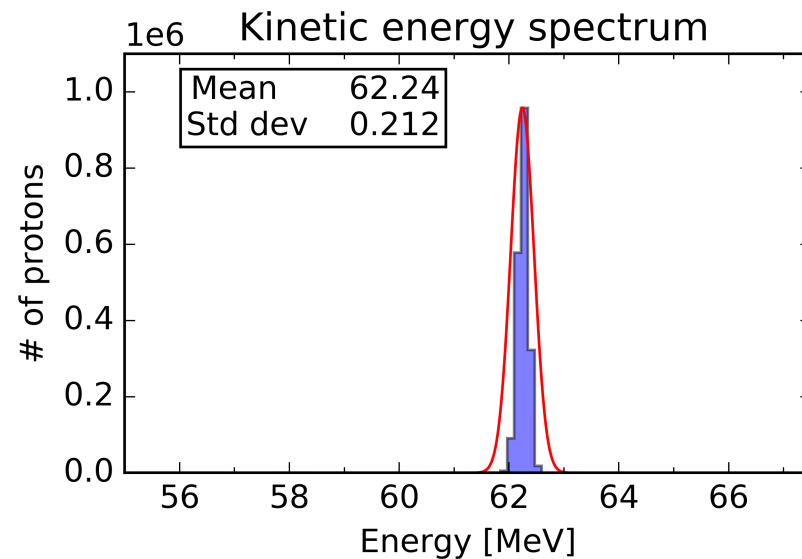
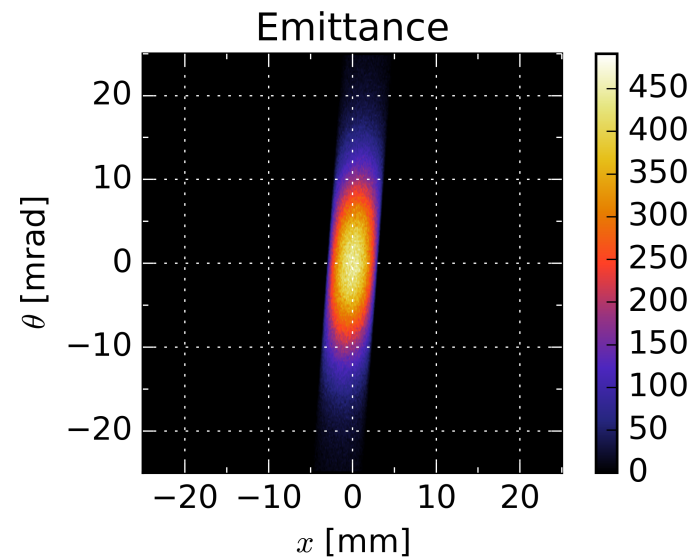
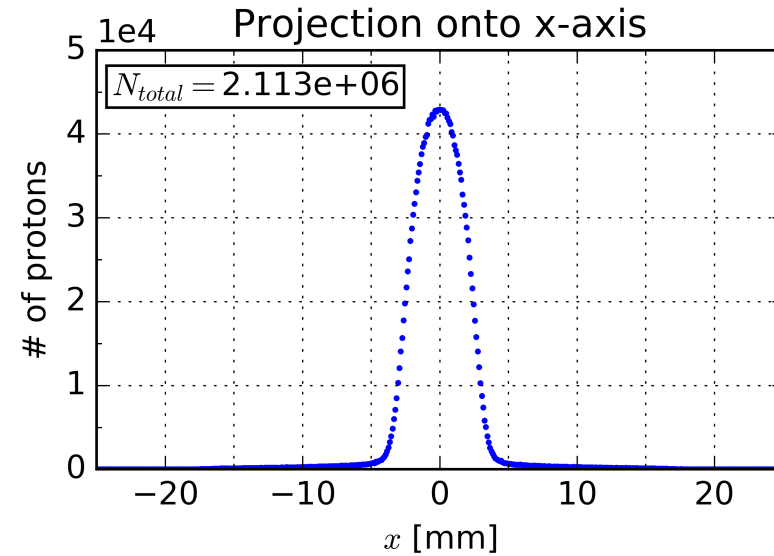
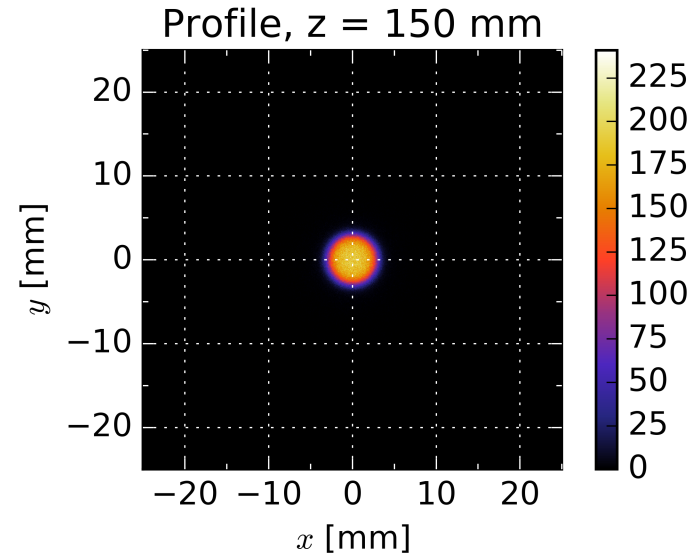
After first collimator



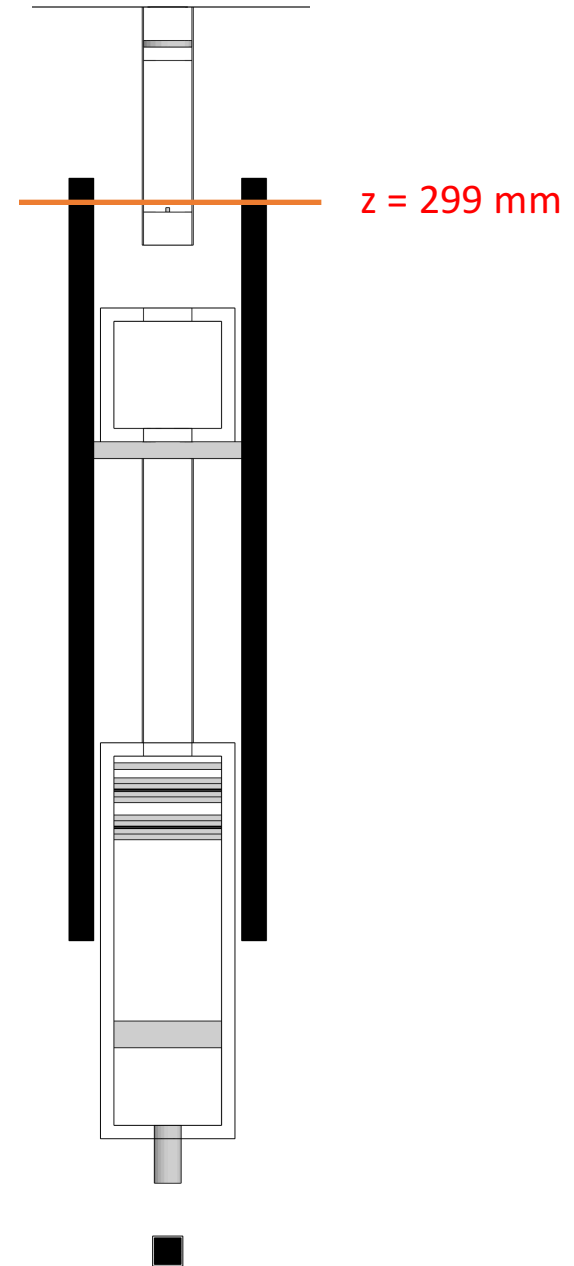
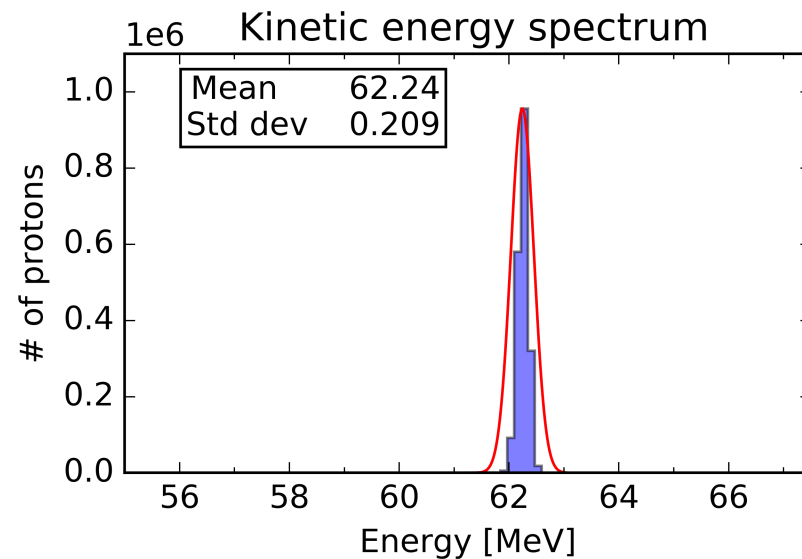
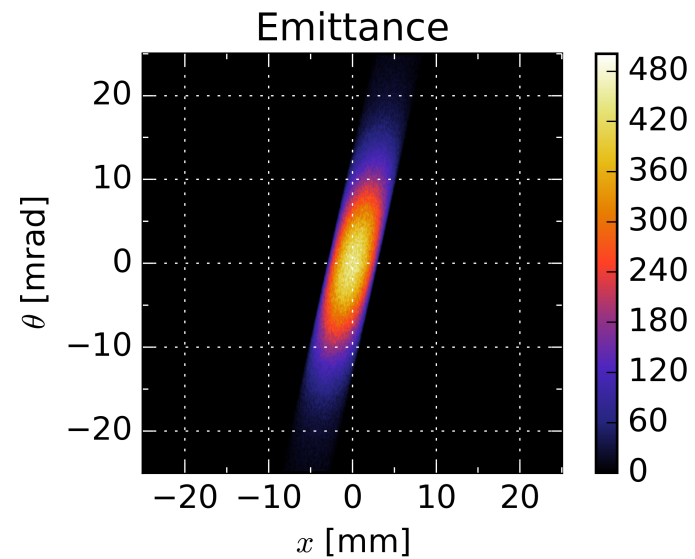
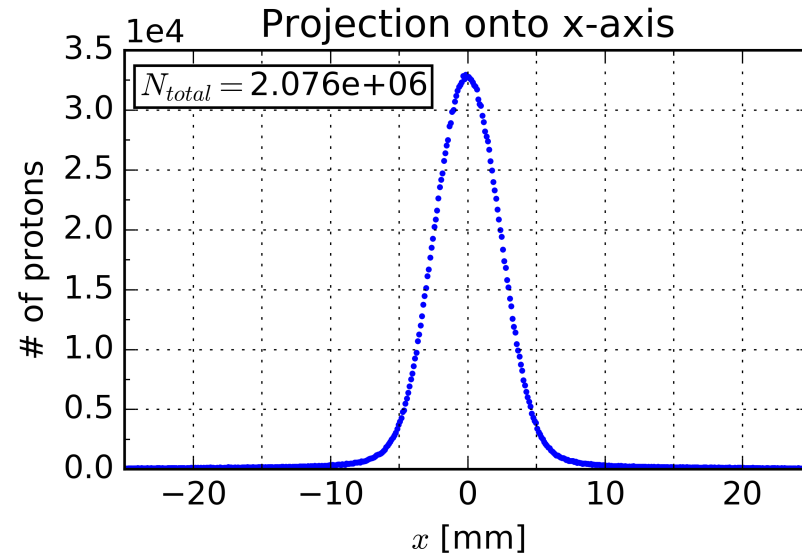
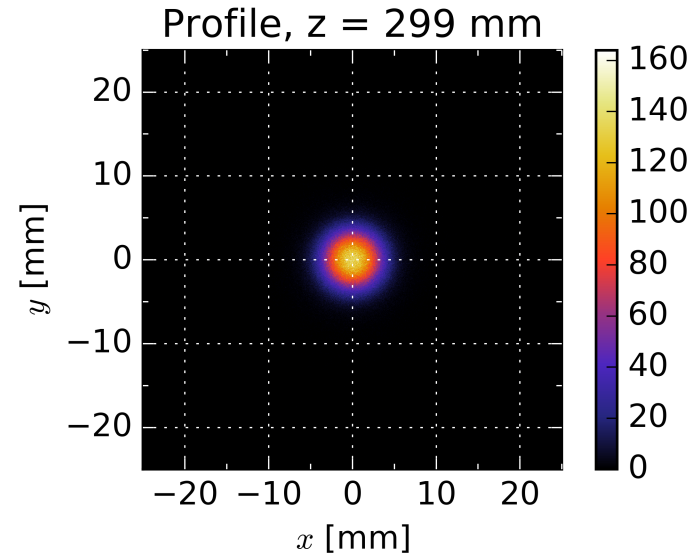
After first scatter foil



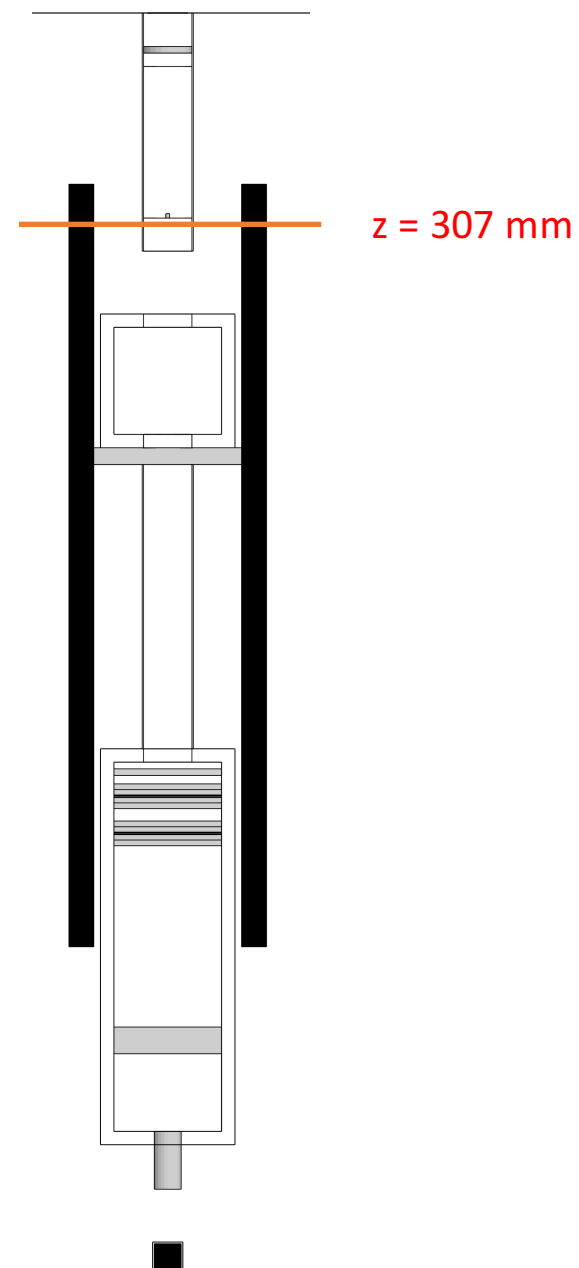
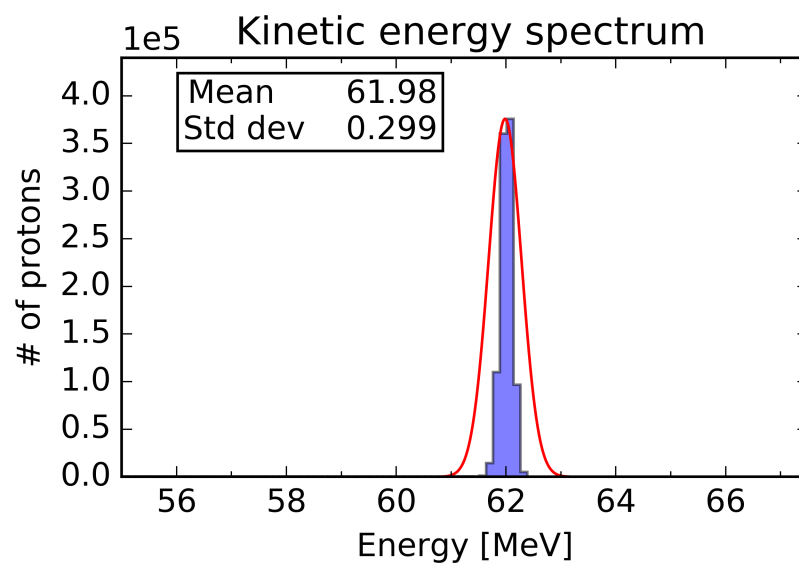
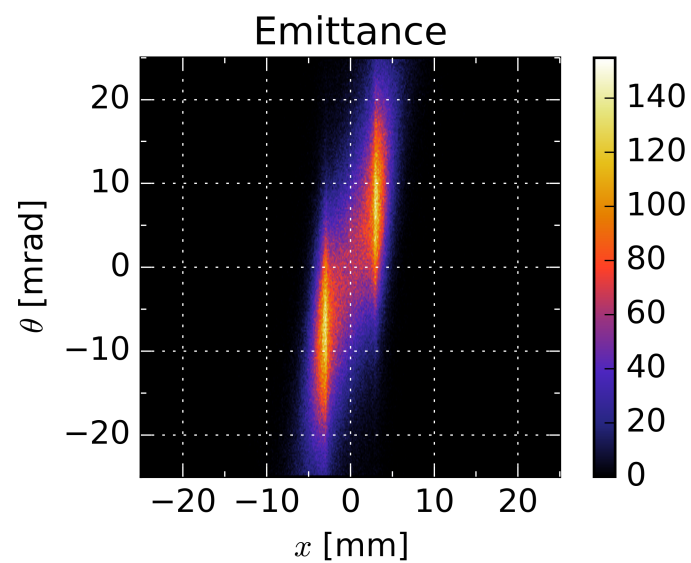
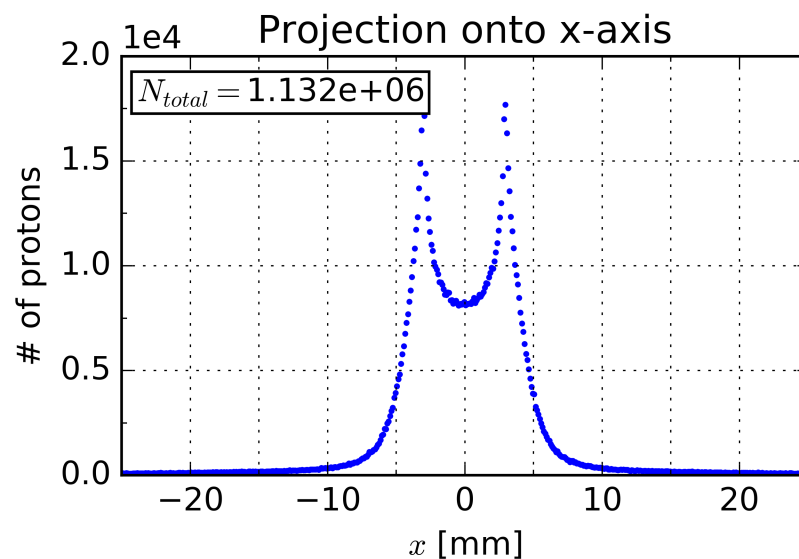
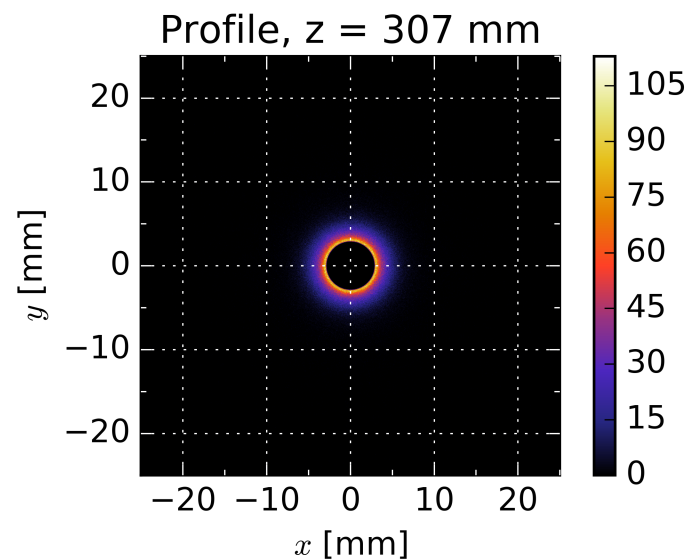
Halfway(ish) through first tube



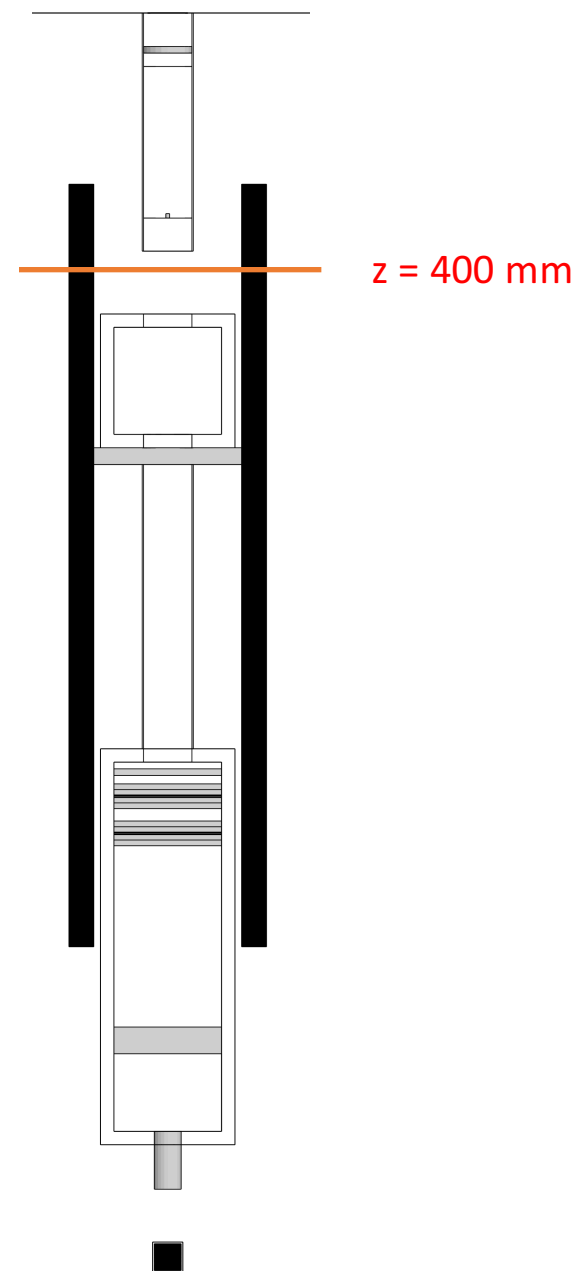
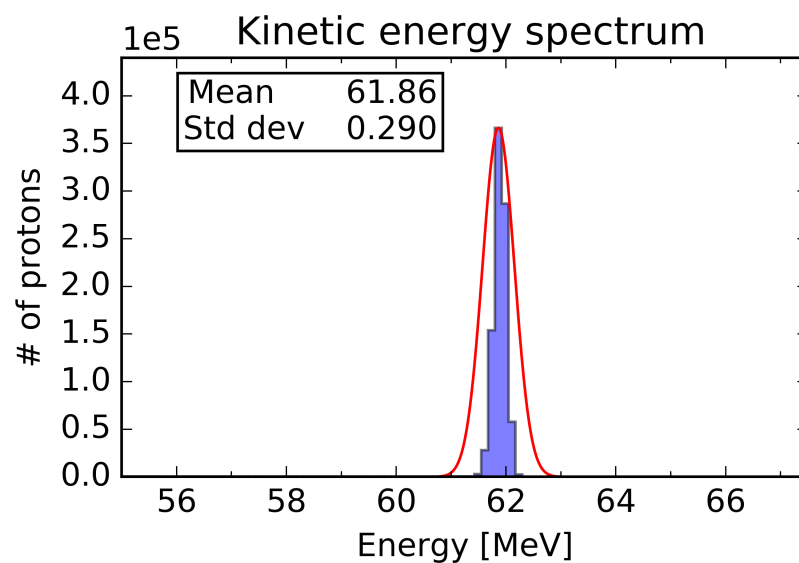
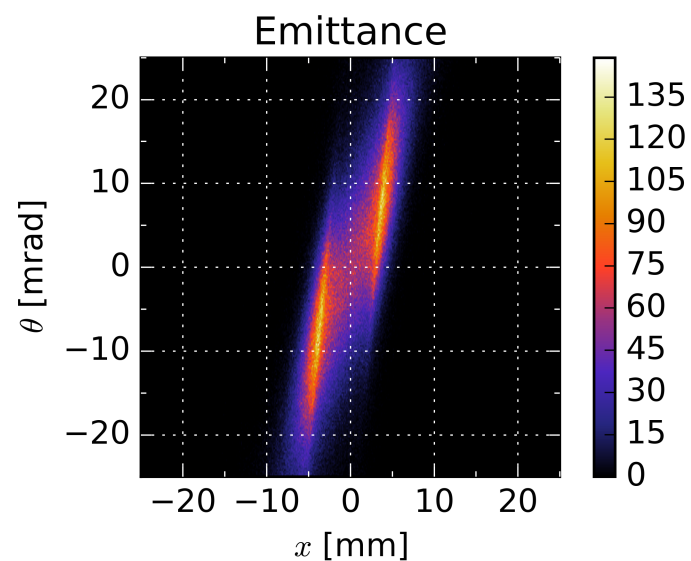
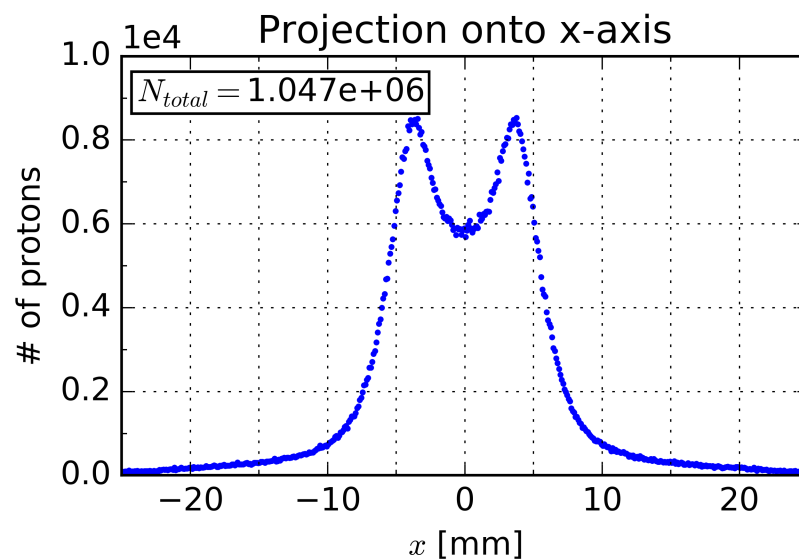
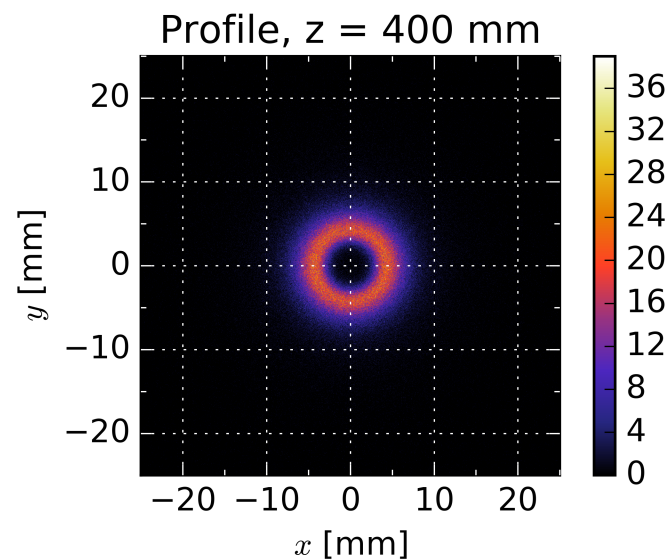
Before brass stopper



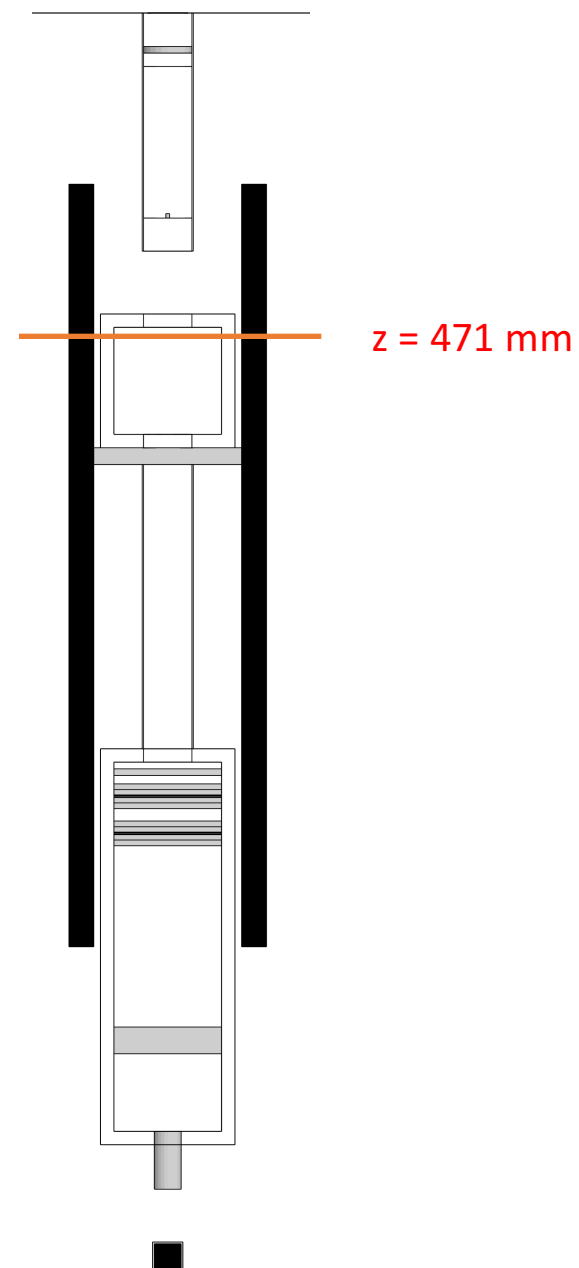
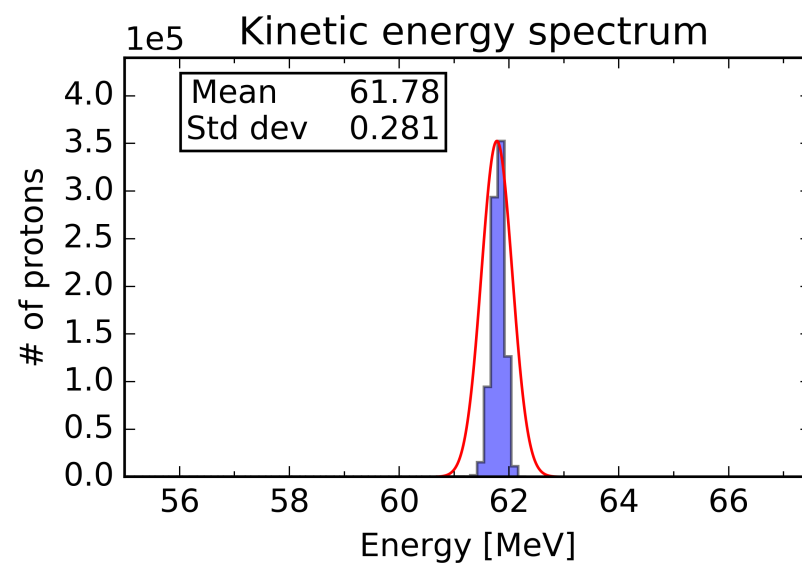
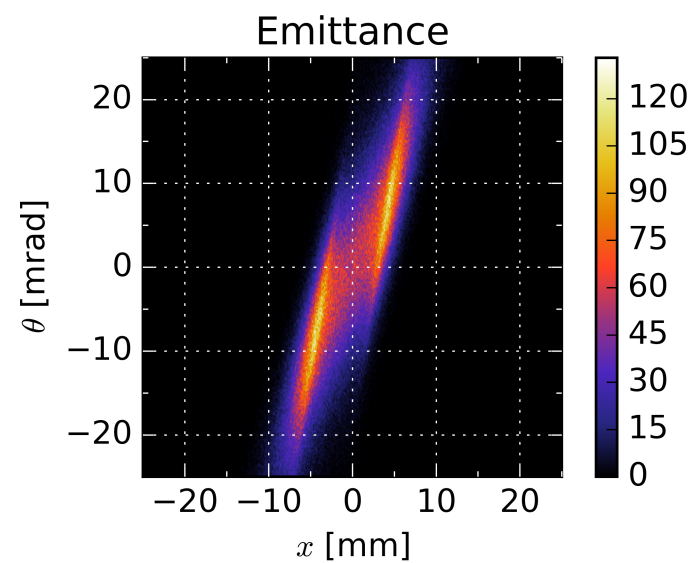
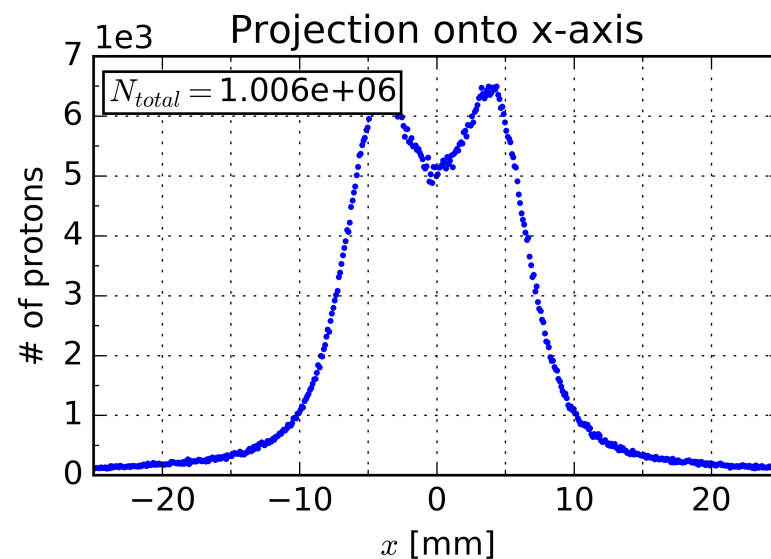
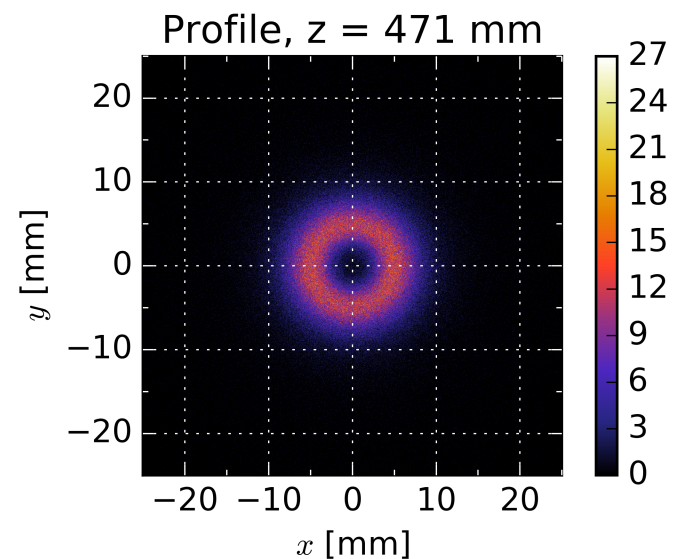
After brass stopper



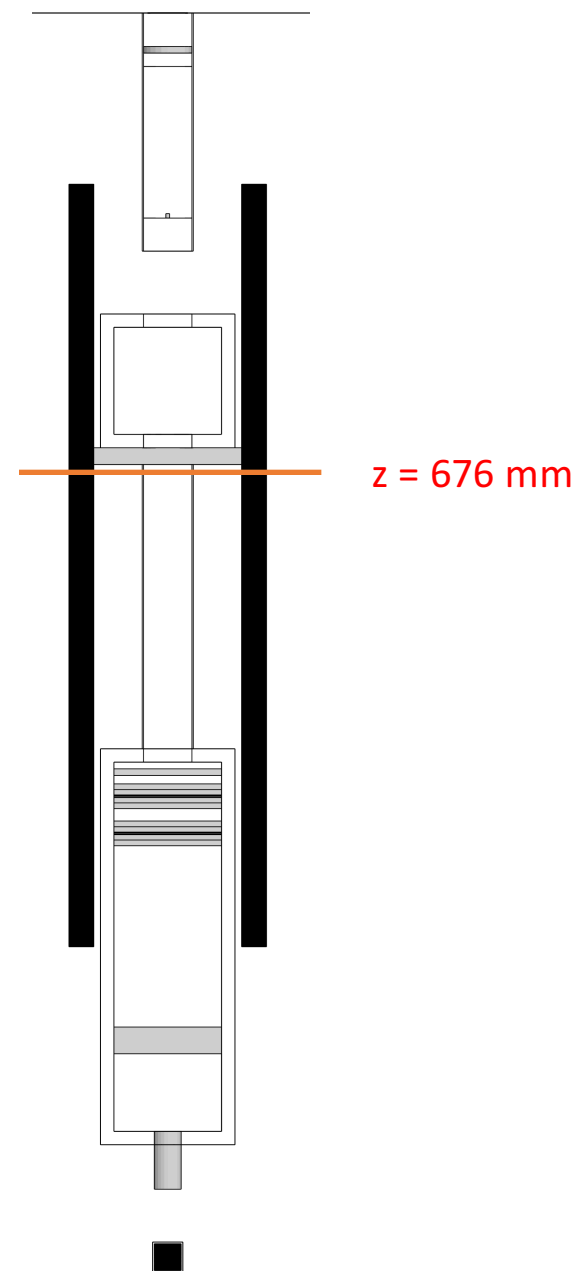
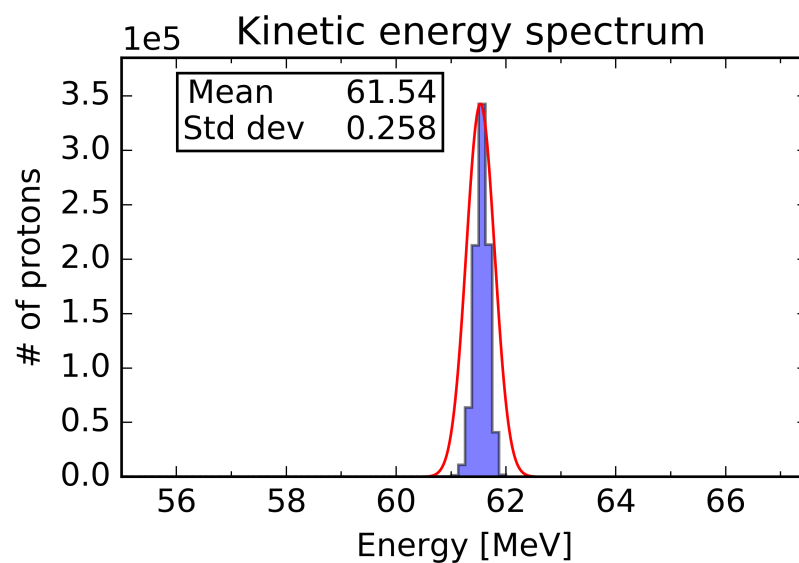
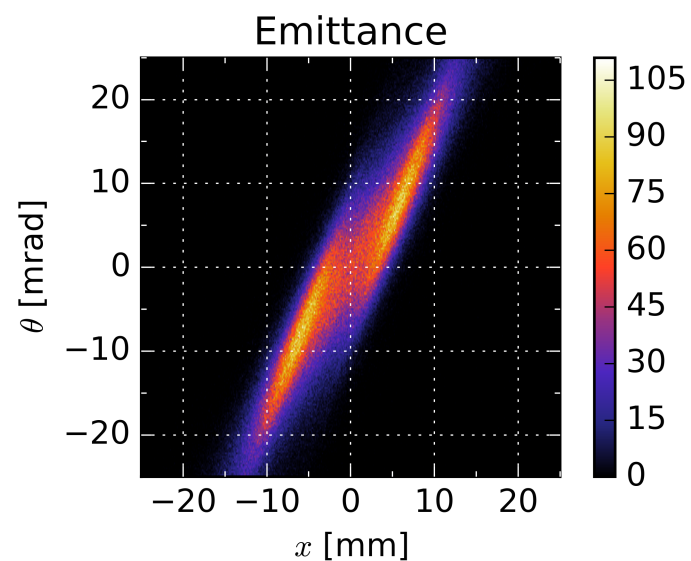
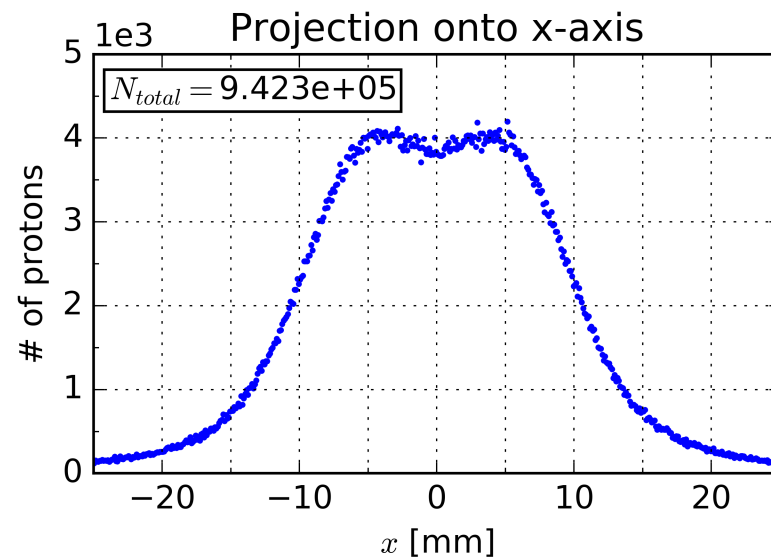
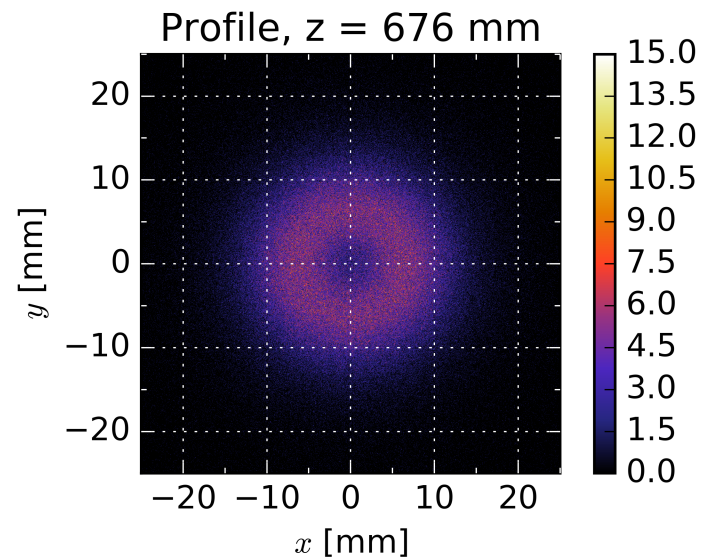
Between first box and first tube



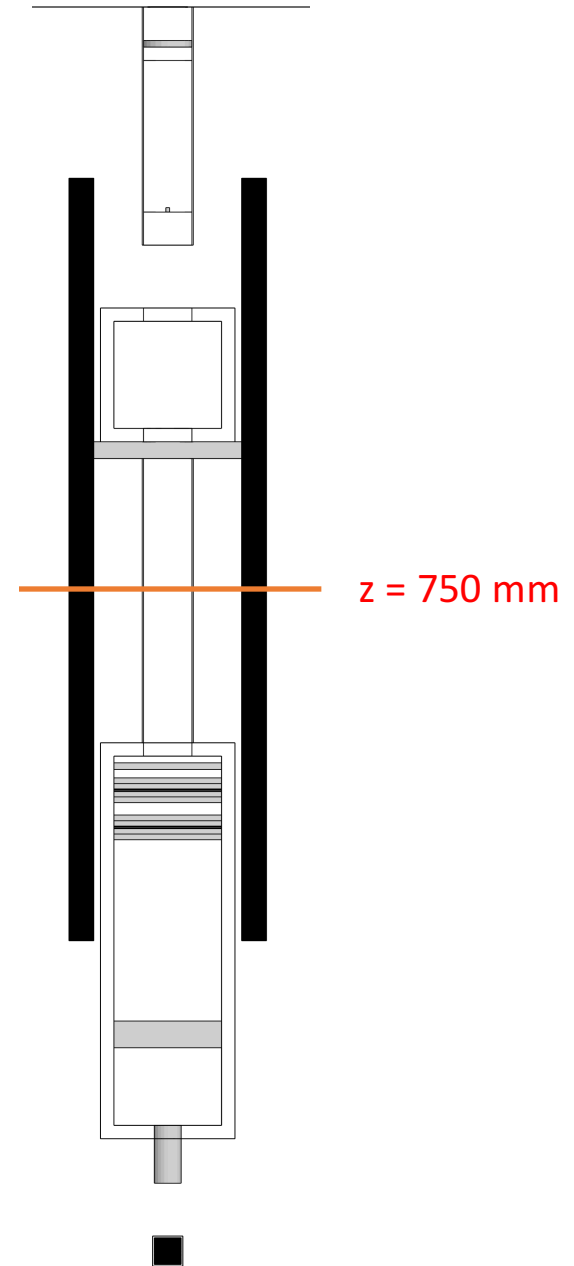
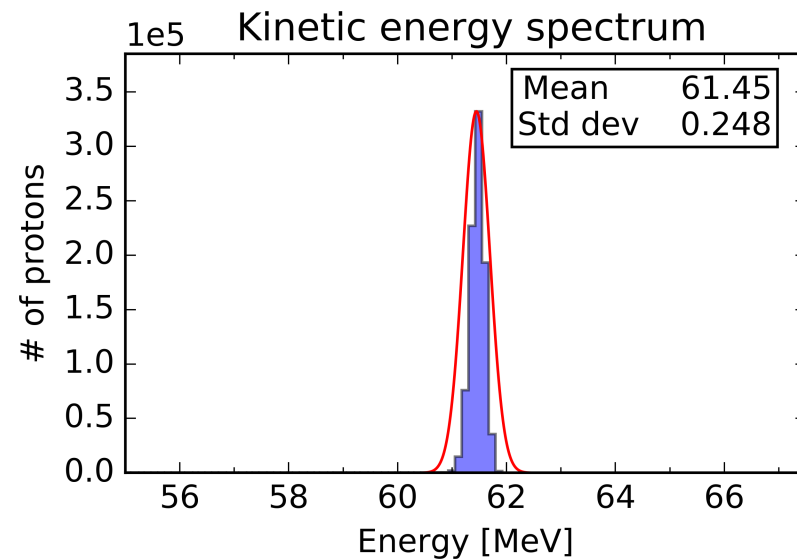
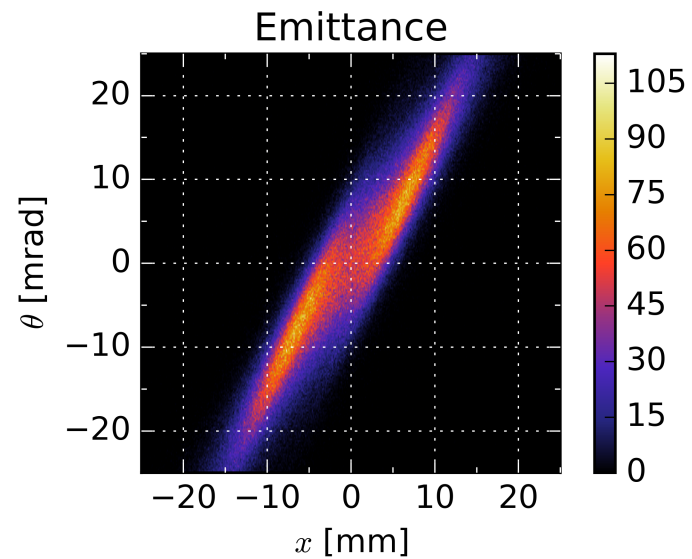
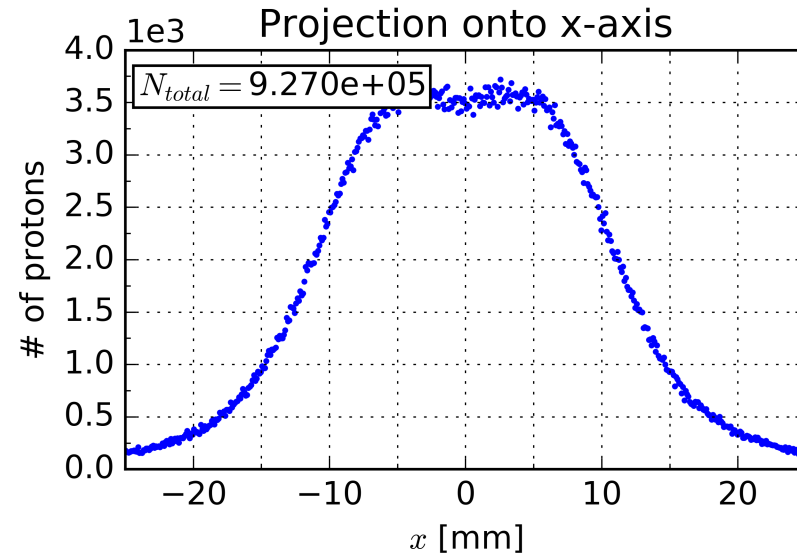
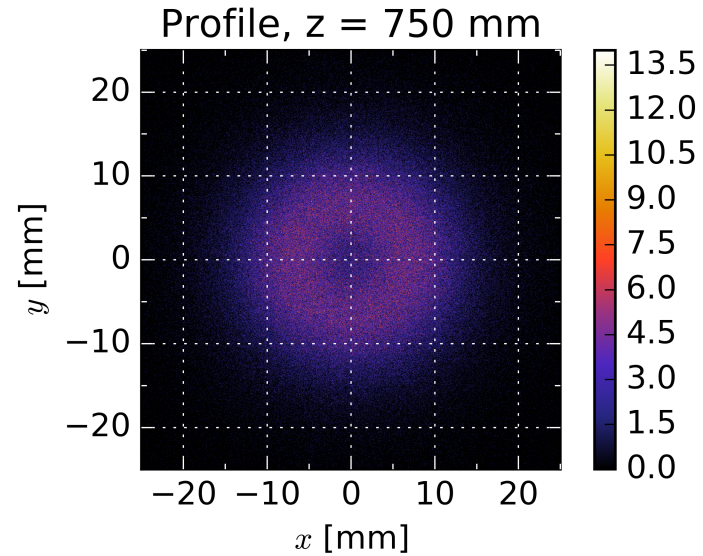
Inside first box



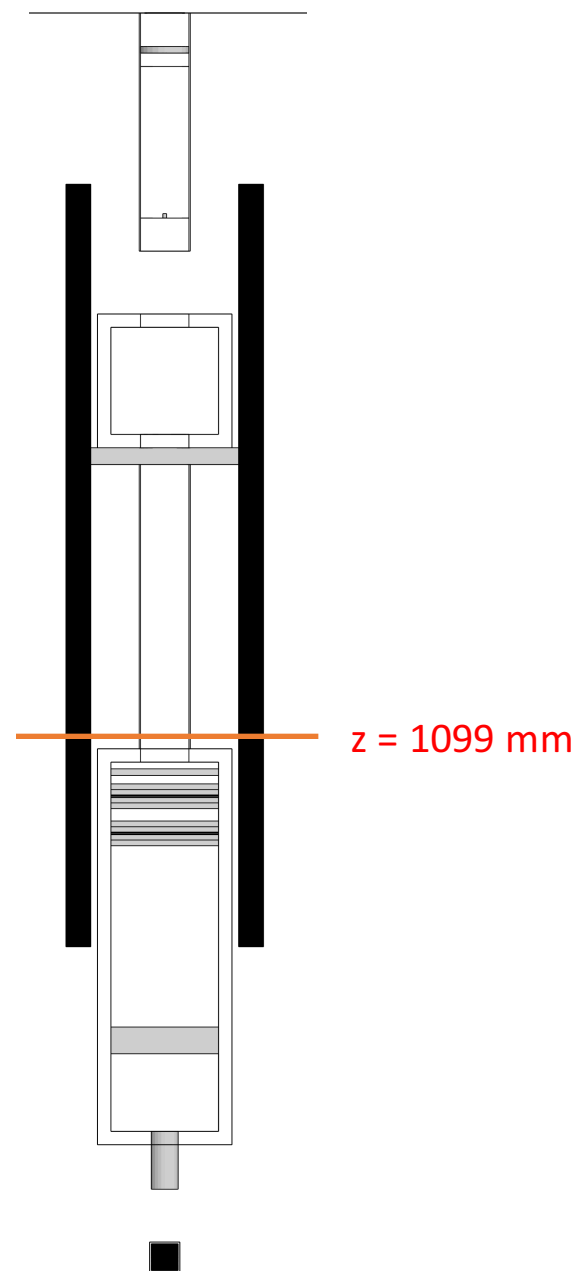
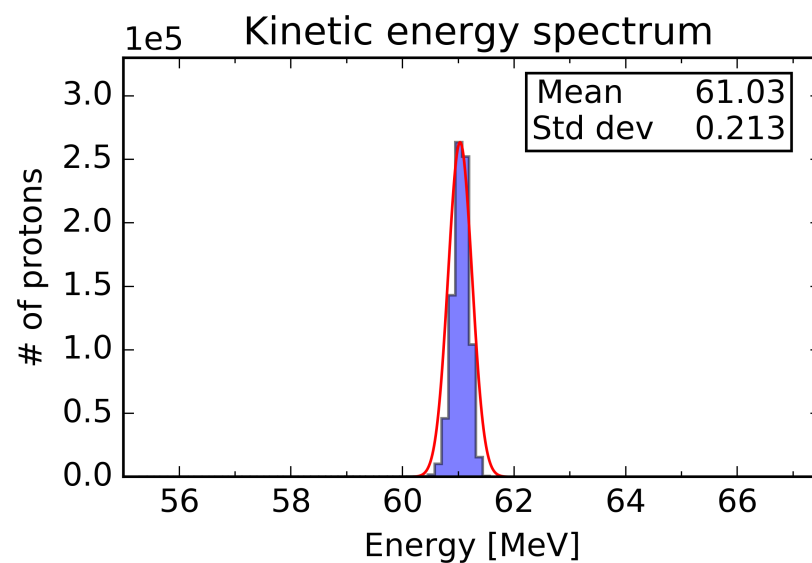
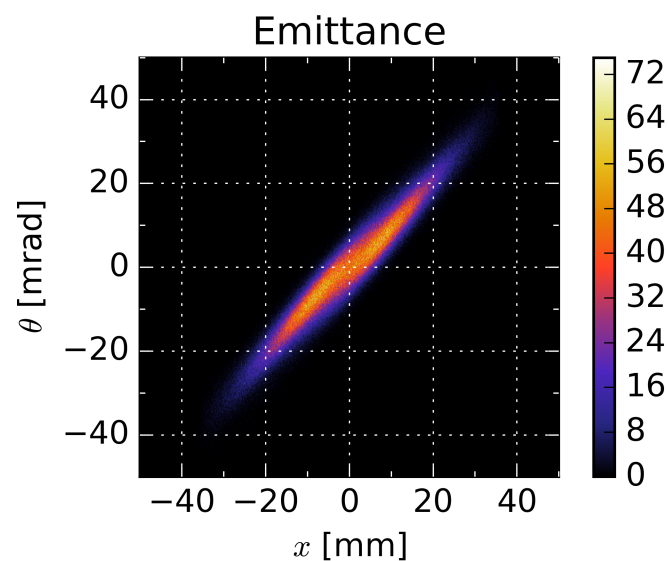
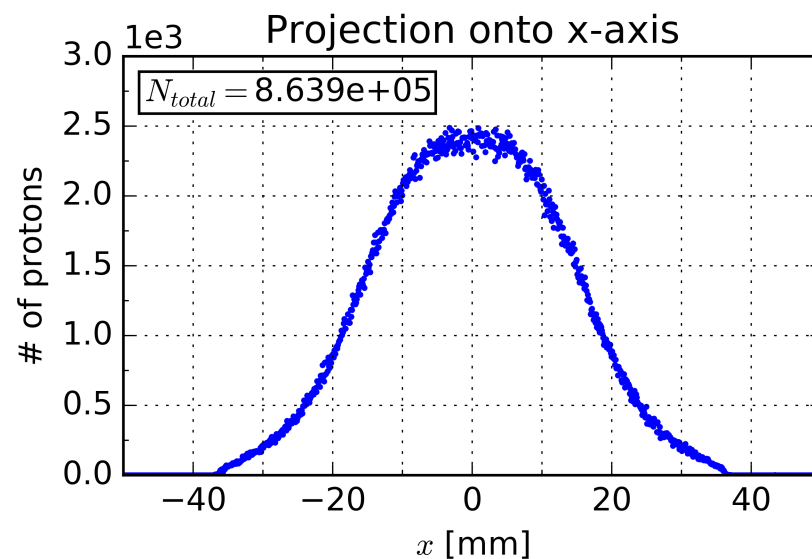
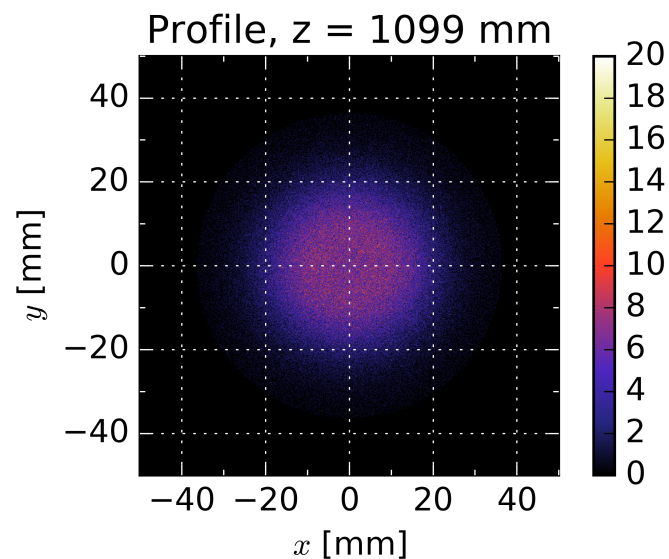
After iron block



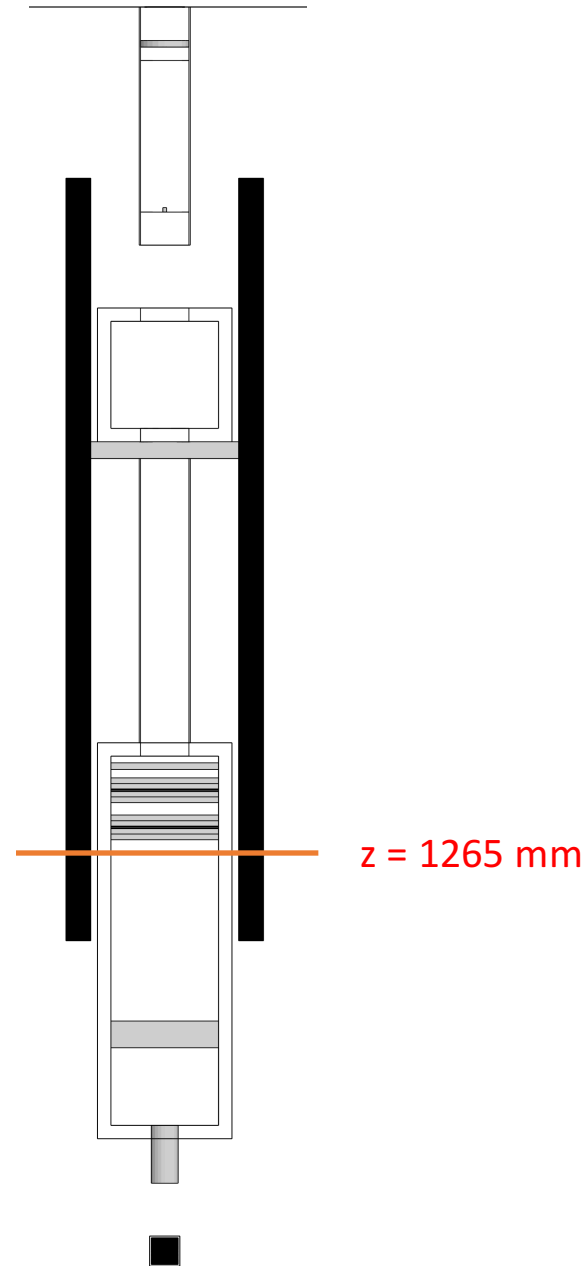
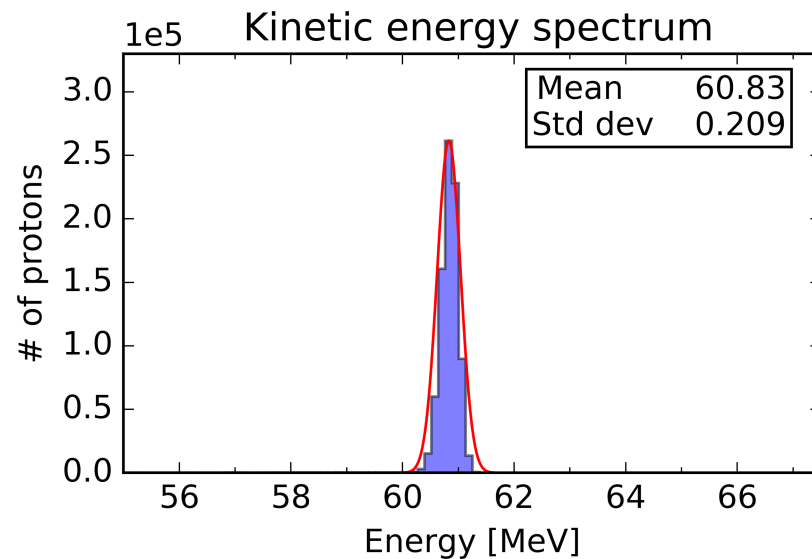
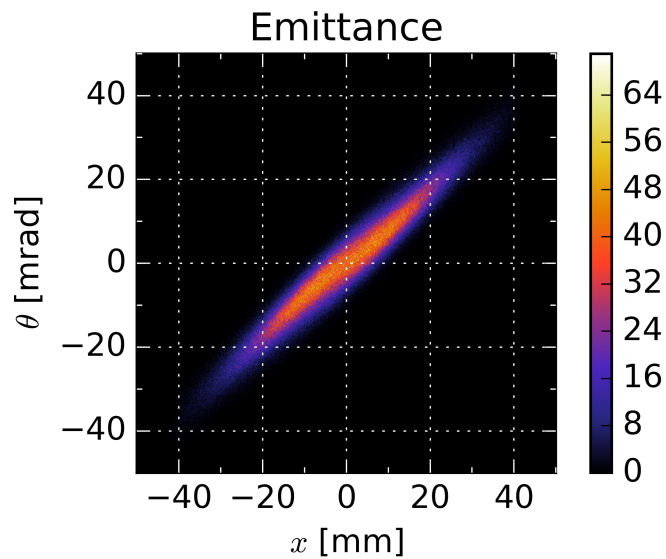
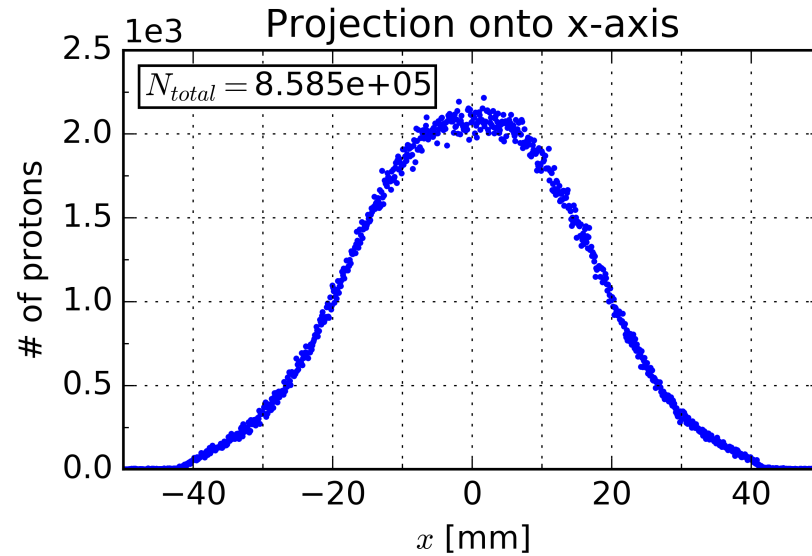
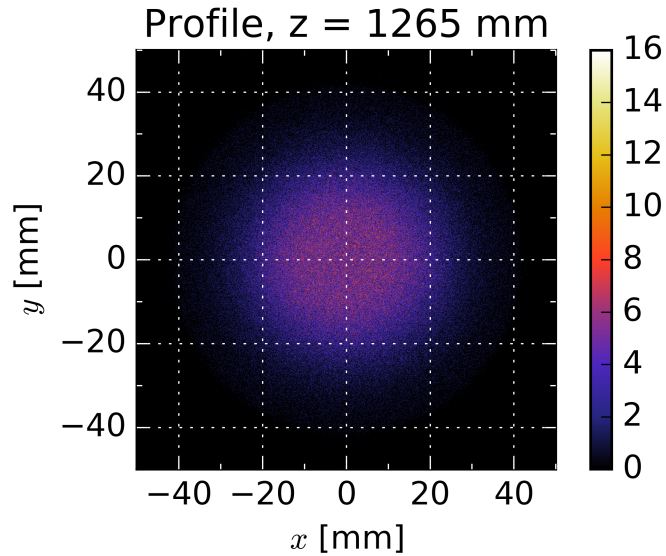
Halfway(ish) through second tube



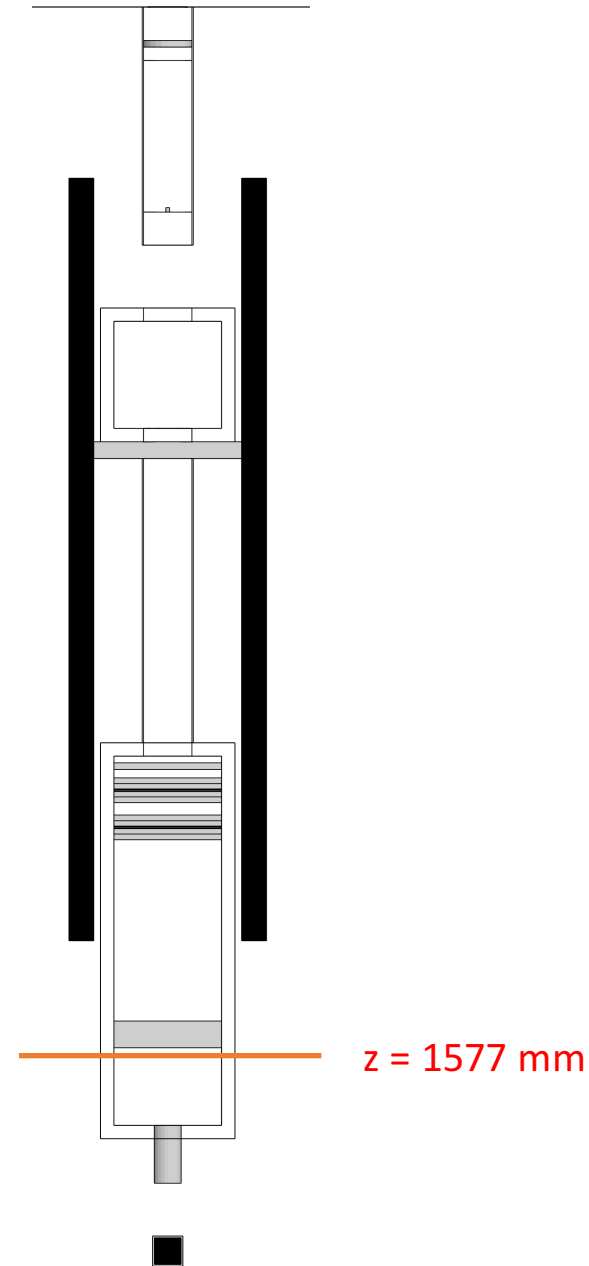
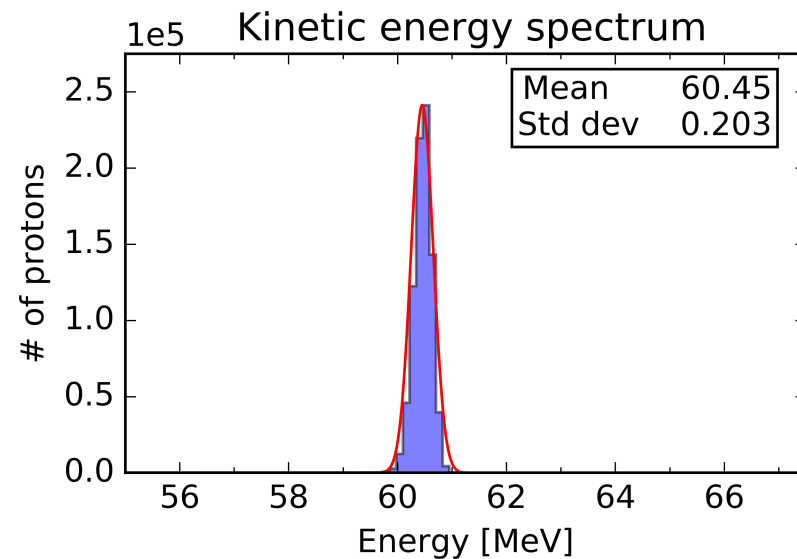
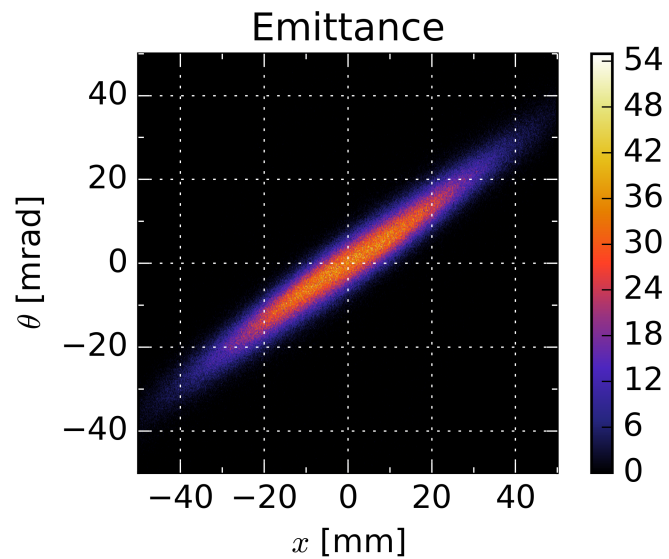
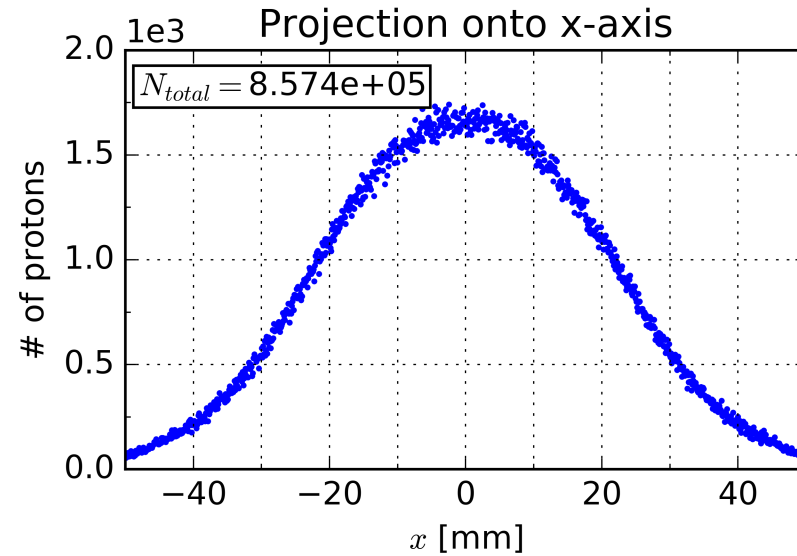
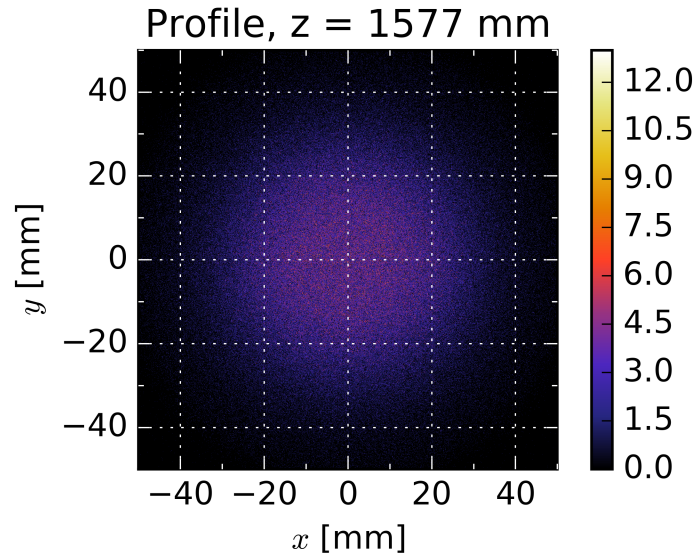
Before second box



After second collimator and dose monitors



After cross wires



After nozzle

