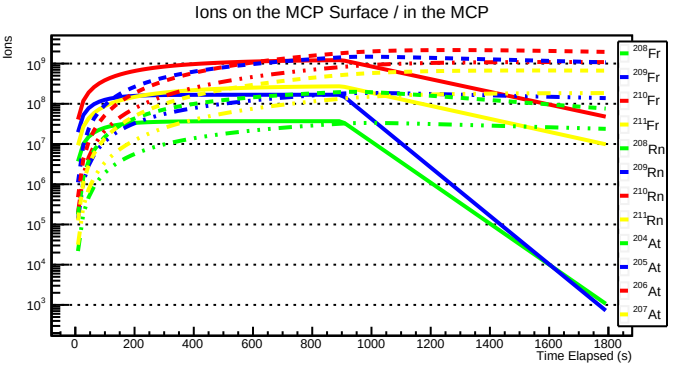
Energy: 6.94 MeV/u, Current: 4000 enA, Temperature: 900 °C

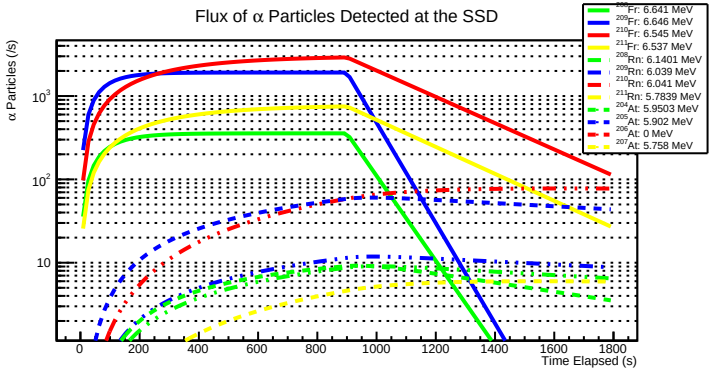
$\varepsilon_{ionization}$: 100.0%, $\varepsilon_{extraction}$: 100.0%, ε_{MCP}: 37.0%, ε_{SSD}: 0.2%

We assume that only Fr is extracted from the target.

Escape efficiencies ε_{escape}:

^{208}Fr: 34.66%, ^{209}Fr: 18.00%, ^{210}Fr: 25.10%, ^{211}Fr: 21.03%





After 900 seconds of beam irradiation (4000 enA):

^{208}Fr: 433183/s production, α detection 338.746/s (6.641 MeV)

^{209}Fr: 2.32467e+06/s production, α detection 1801.54/s (6.646 MeV)

^{210}Fr: 4.60152e+06/s production, α detection 2858.47/s (6.545 MeV)

^{211}Fr: 1.05162e+06/s production, α detection 738.156/s (6.537 MeV)

TOTAL: 8.411e+06/s production, α detection 5736.91/s from Fr