In-Flight Separation of Relativistic Projectile Fragments

production target

primary beam: Pb @ 1 GeV/u

dipole: Bρ

Degrader

TOF: βγ

MW: x,y

IC: dE, Z

SCI

Degrader

Array

Segmented Clover

catcher

small Clover

Super Clover

A = Bρ e

B γ c u

Q-Z

Q-Z1

Q-Z2

Q=Z

194Os  195Os  196Os

191Re  192Re  193Re

191Ta  192Ta  198Ta

186Ta  187Ta  188Ta

189W  190W  191W

A/Q (arb. units)

X<sub>S4</sub>

50 100 150 200 250 300