

SHELS: ${}^{48}Ca(216 \text{MeV}) + PbS(0.404 \text{mg/cm}^2) \rightarrow {}^{254}No^{18+}$



LISE** Version 9.10.209 from 11/19/2015

11/25/15

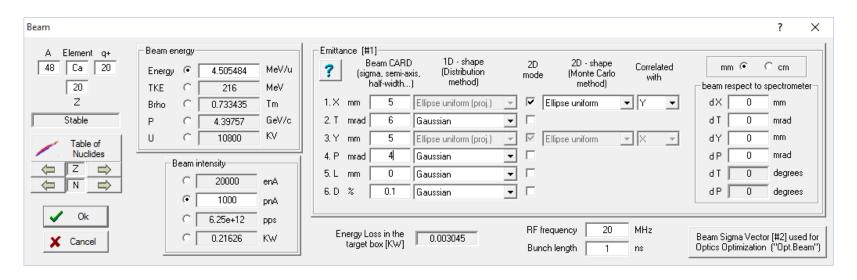
⁴⁸Ca(216Mev) + PbS(**0.404**mg/cm²)

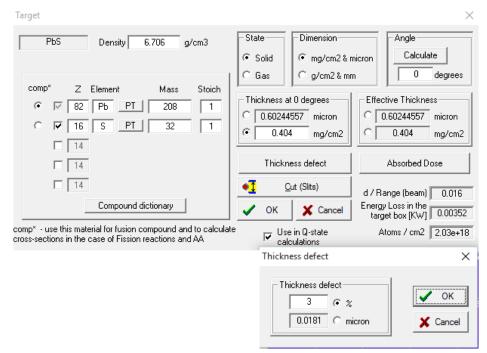
- New target and beam settings
- New optical settings
- Matrix envelpes
- Transmission
- Transmission with disperse block recalculation



New beam and target settings



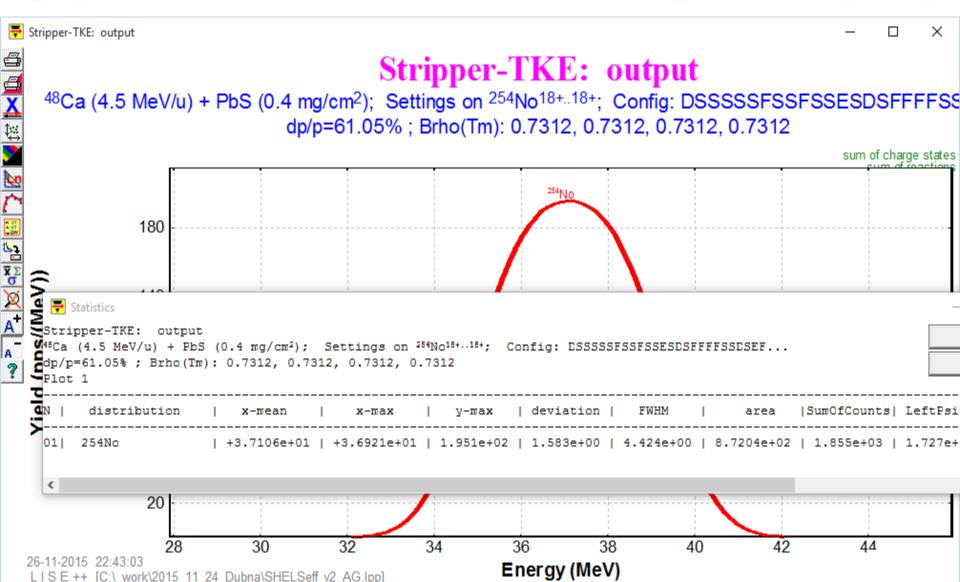






Residue energy with new beam and target settings

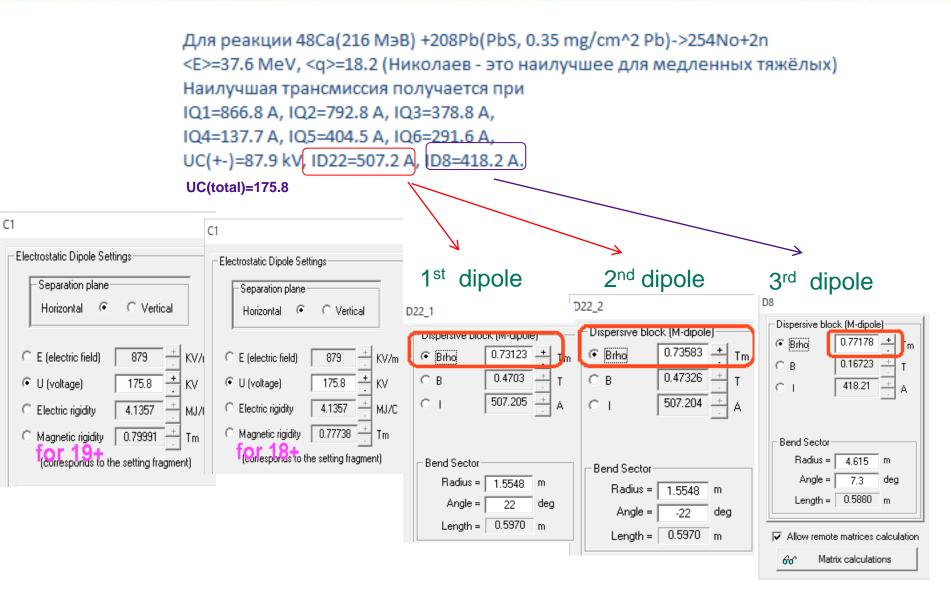






Optics settings

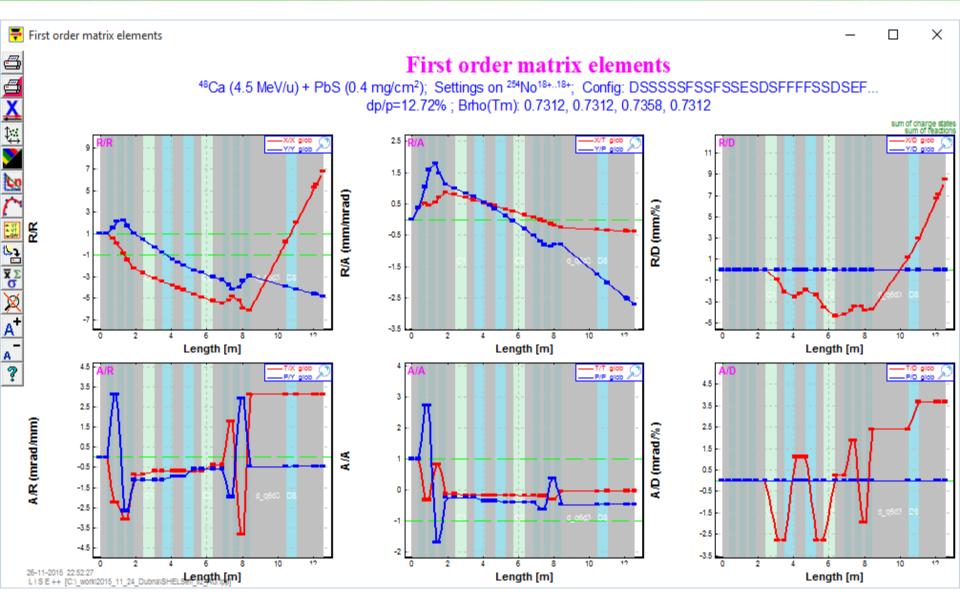






Optics settings







Transmission: Analytical



₹ statistics: 254No

254No Alpha and Beta+ decay (Z=102, N=152) Nobelium

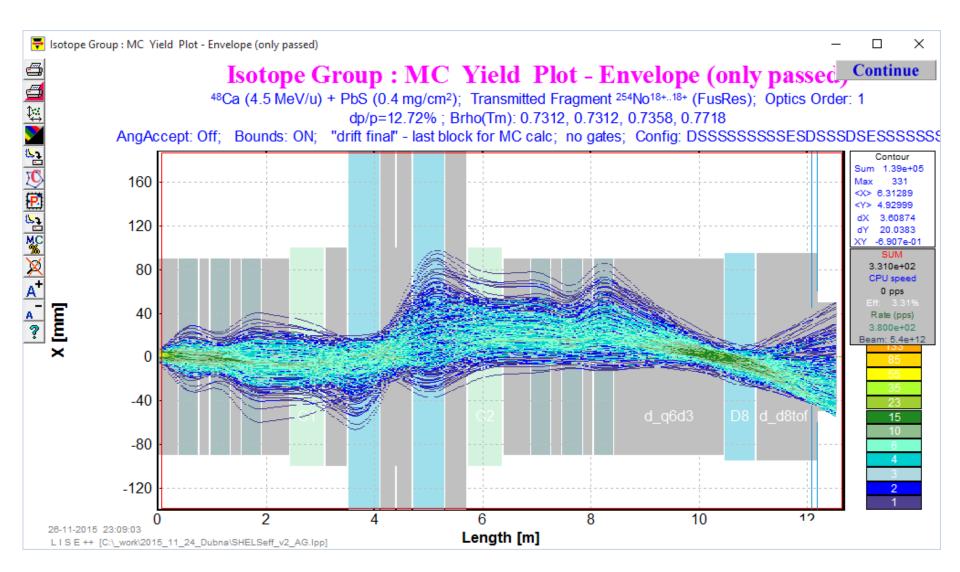
All ponetions total isotops water	0.02-10					
and Overall isotope transmission	33.232	8				
Q1(tuning)	25	24	23	22	21	20
Q2 (C1)	25	24	23	22	21	20
Q3 (D22 1)	25	24	23	22	21	20
Q4 (D22 2)	25	24	23	22	21	20
Q5 (C2)	25	24	23	22	21	20
Q6 (D8)	25	24	23	22	21	20
Reaction	FusRes	FusRes	FusRes	FusRes	FusRes	Fus
Ion Production Rate (pps)	2.02e-1	9.25e-1	3.2e+0	8.93e+0	1.92e+1	3.:
Total ion transmission (%)	0.023	0.105	0.362	1.011	2.179	3.
T1. +b:: /\	2 02-12	2 02-12	2 02-12	0.00-10	2 02-12	2 /



Transmission: Monte Carlo



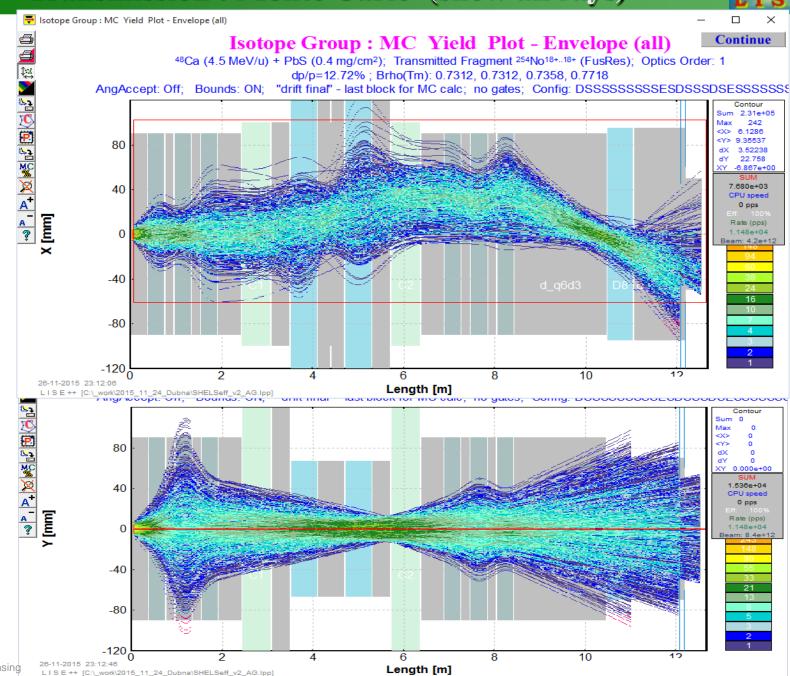
Transmission 44%





Transmission: Monte Carlo (show all rays)







If All dispersive blocks set to q=18+ by LISE⁺⁺



All block rigidities set to 0.77507 Tm

Analytical transmission 46.6% Monte Carlo Transmission 60.7%

Files are included:

SHELSeff_v2.lpp SHELSeff_v2_AG_brho_calc.lpp