

Benchmark #1

2MeV Fe on Fe

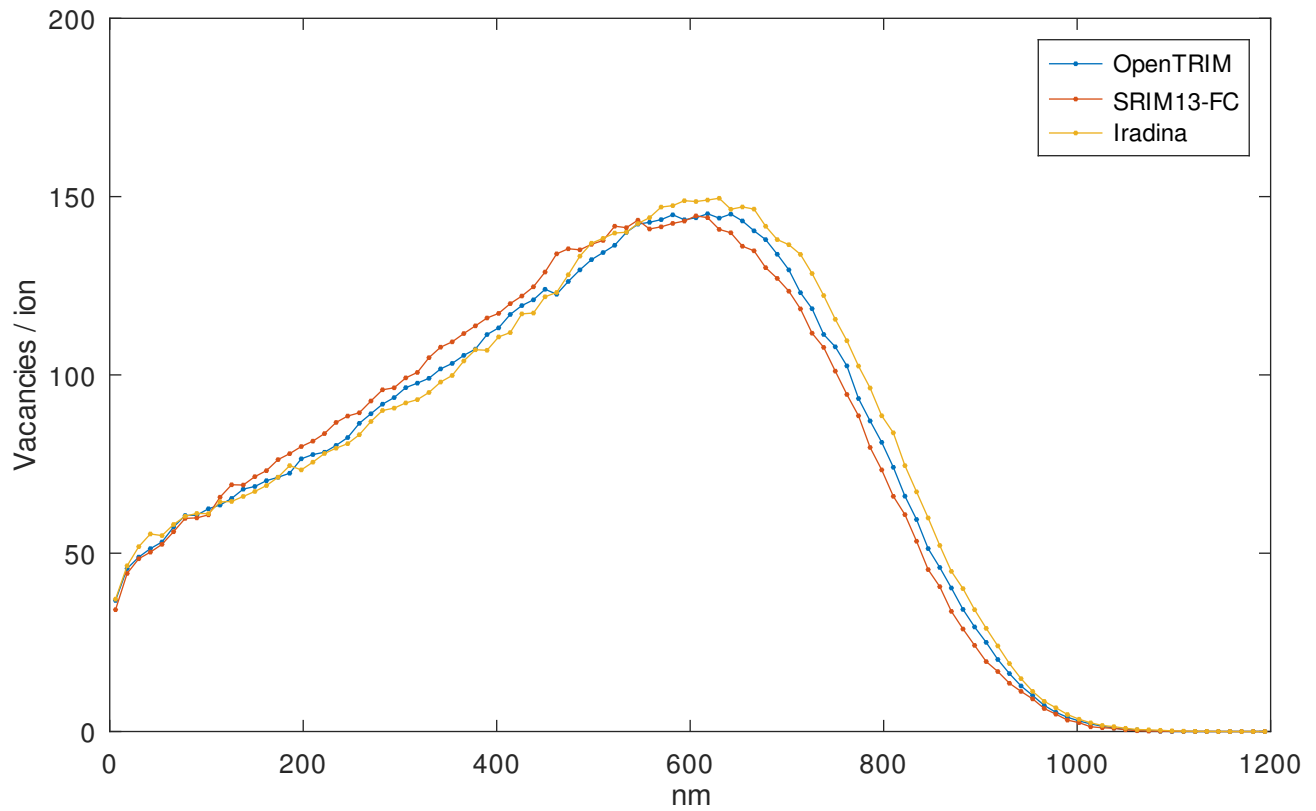
Ion energy E0 = 2e+06 eV

Target depth = 1200 nm

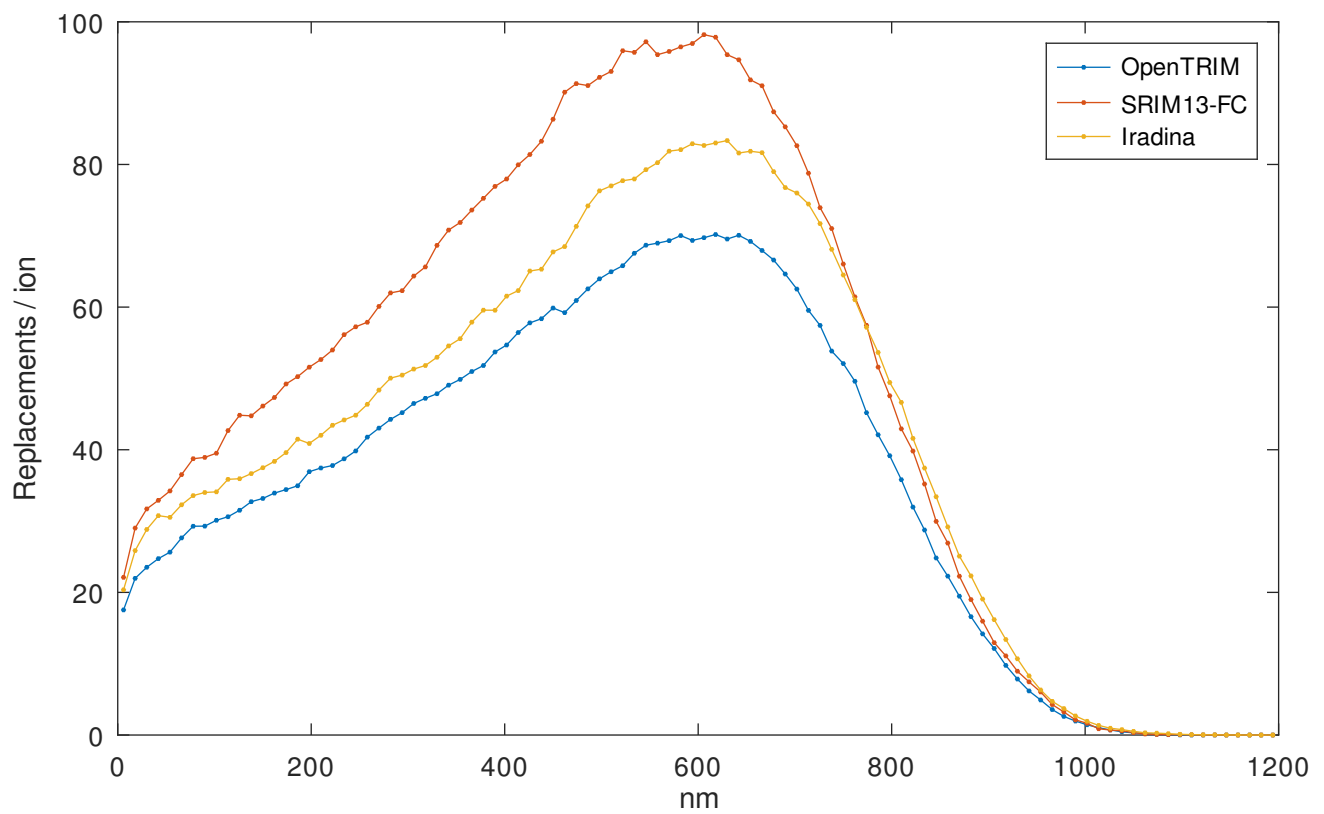
Summary Table

Quantity	OpenTRIM	SRIM13-FC	Iradina
V(Fe)	7.37e+03	7.35e+03	7.53e+03
R(tot)	3.56e+03	4.87e+03	4.19e+03
I(Fe)	1	1	1
EI(Fe)/E0	0.557	0.552	0
EI(r)/E0	0.115	0.112	0
EI/E0	0.671	0.671	0.663
EPh(Fe)/E0	0.00348	0.0034	0
EPh(r)/E0	0.325	0.325	0
EPh(r)/E0	0.328	0.328	0.329
1 - (EI+EPh)/E0	0.000311	0.00772	0.000285

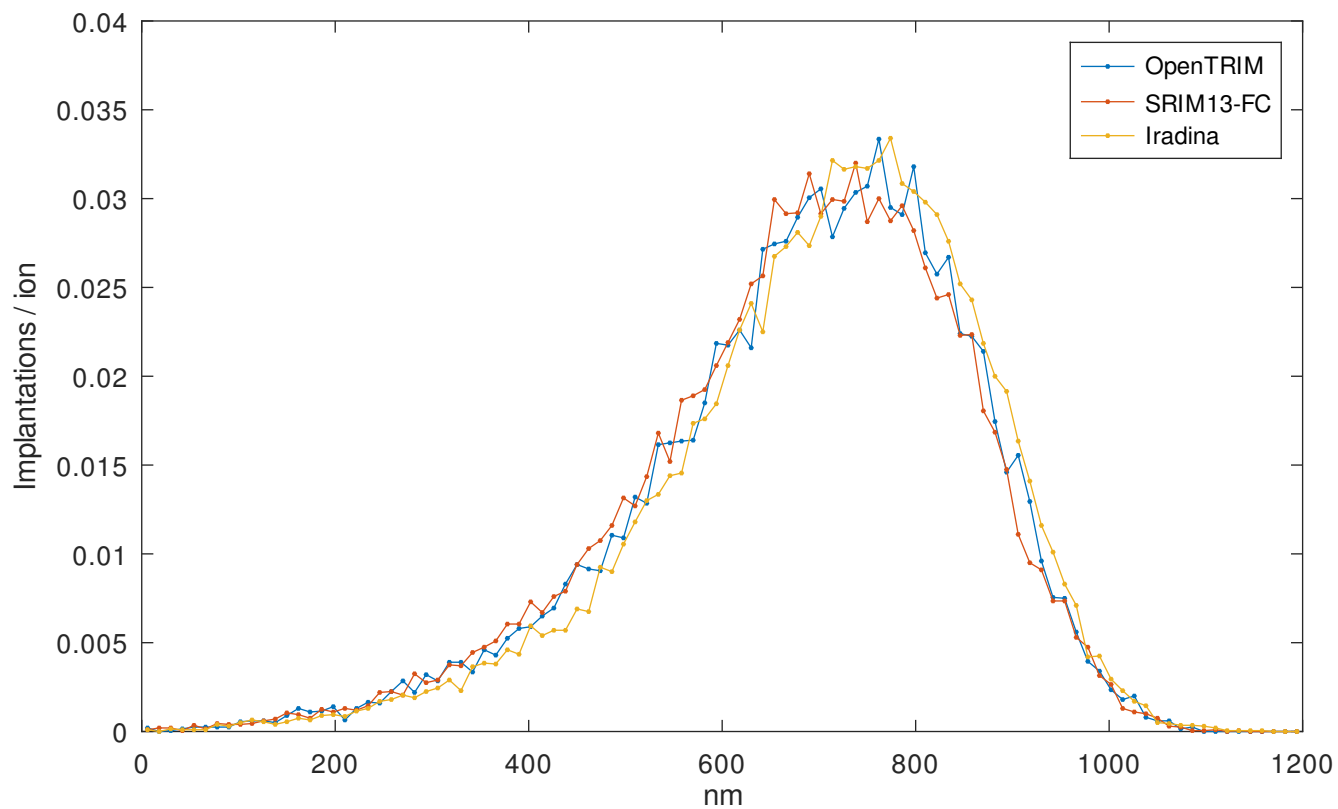
Vacancies of Fe in Fe



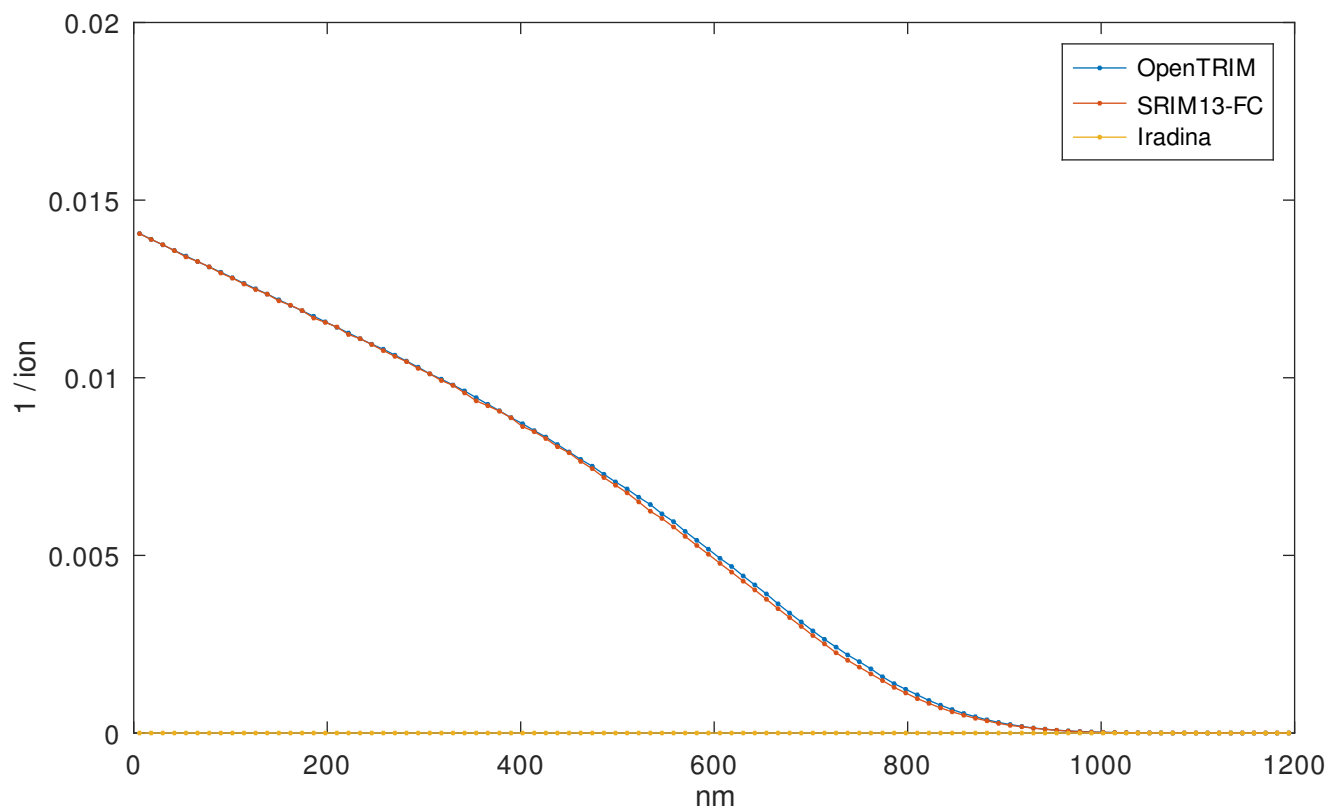
Replacements



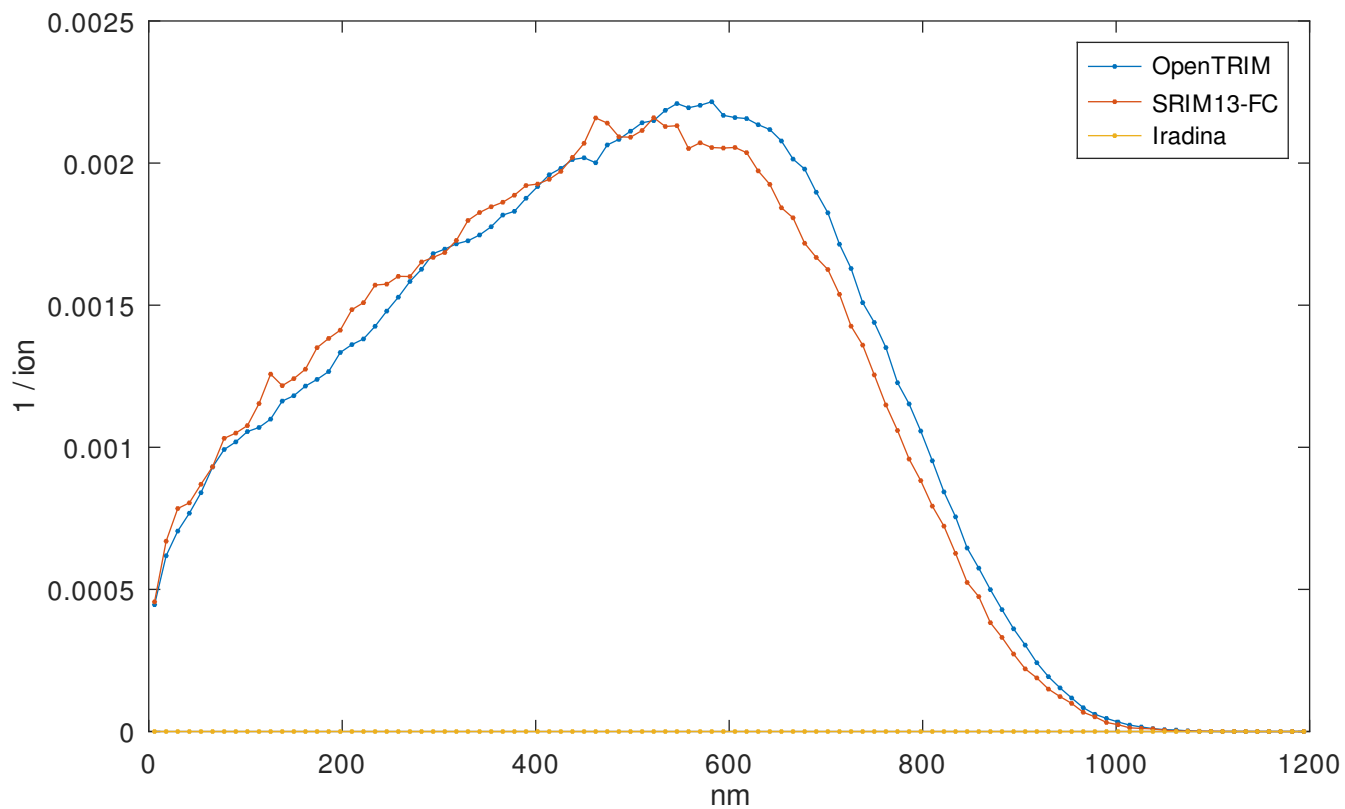
Implanted Fe ion



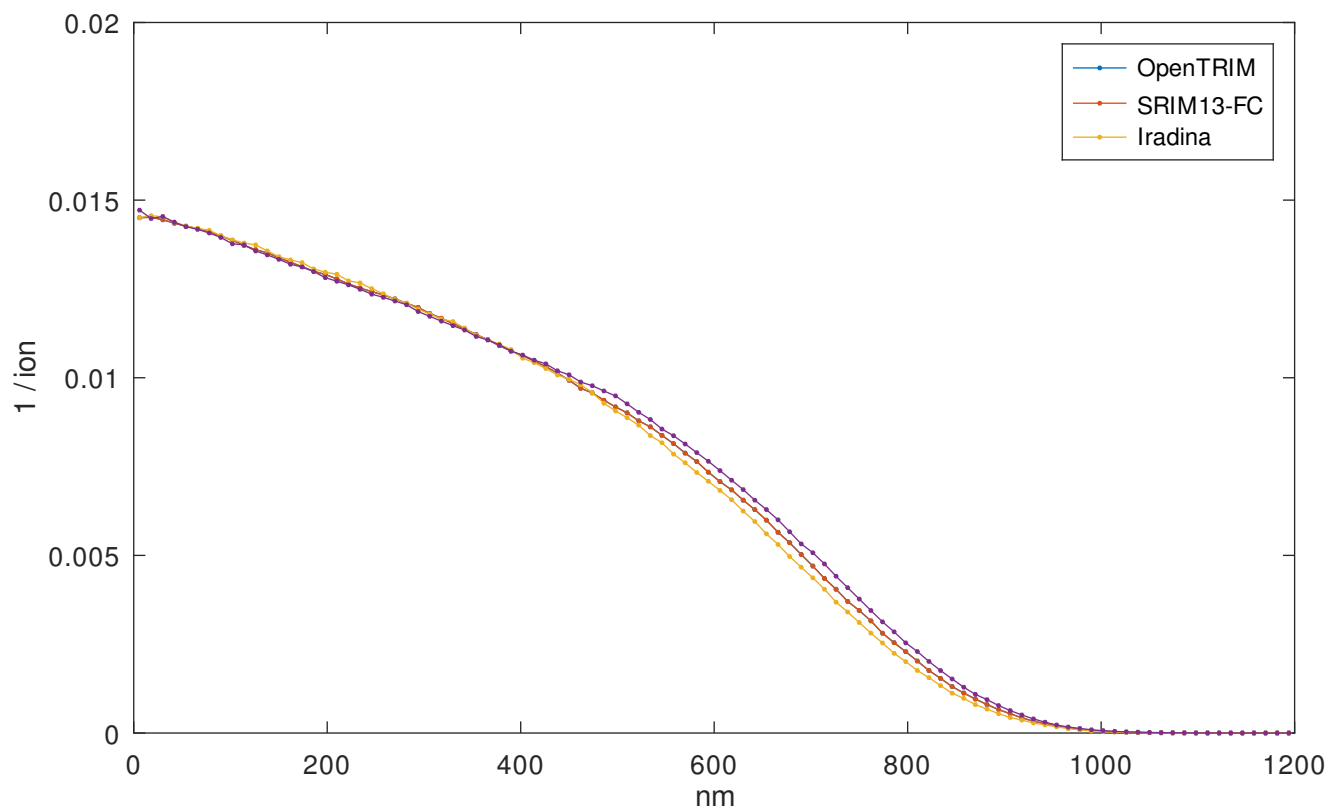
Ionization fraction E_I/E_0 by Fe ion



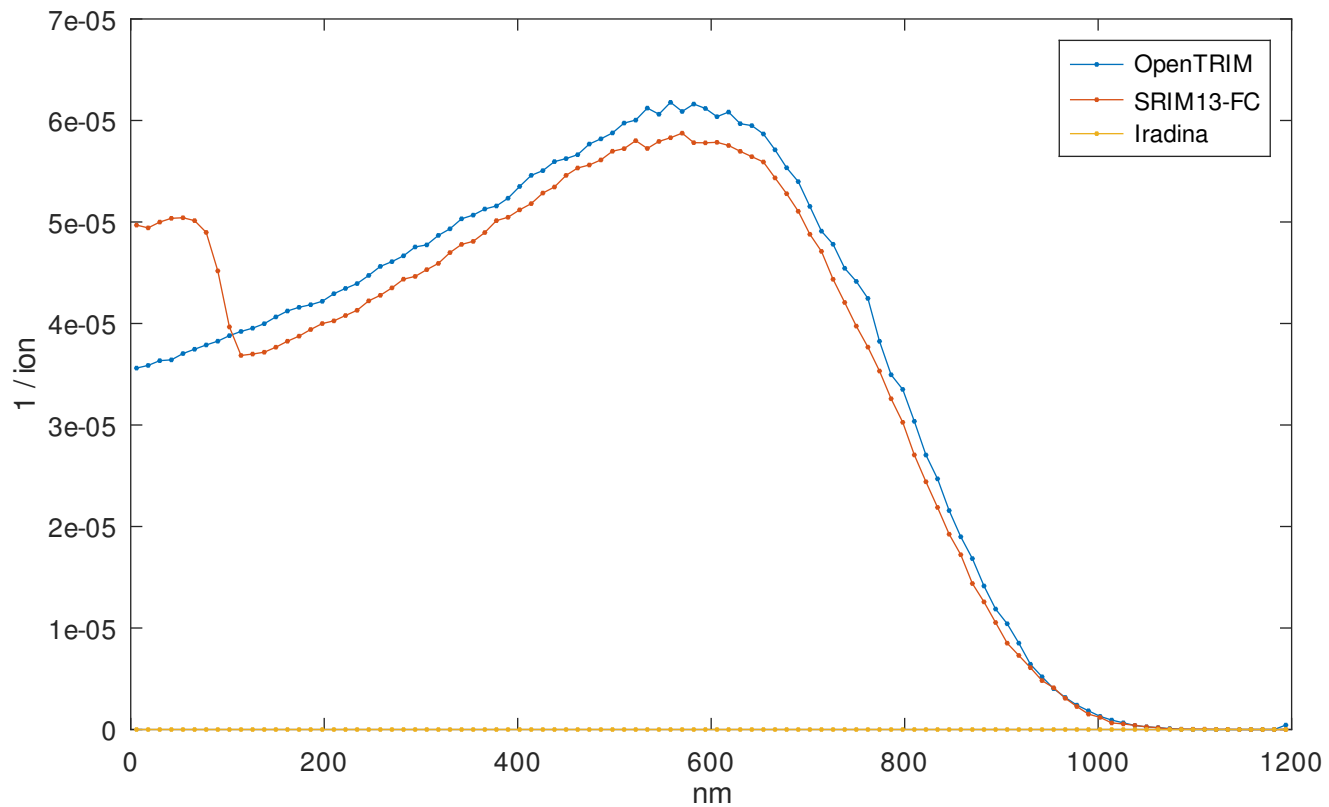
Ionization fraction E_I/E_0 by recoils



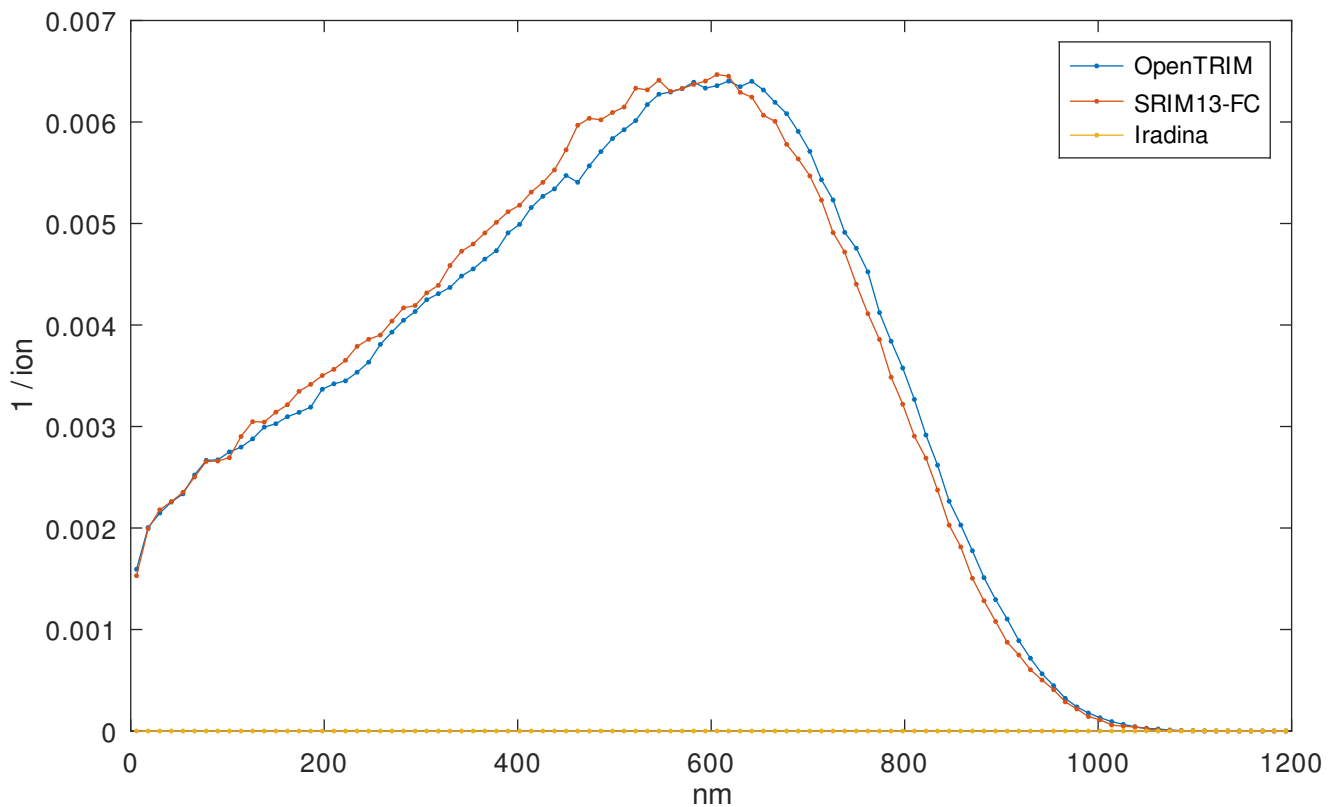
Total Ionization fraction E_I/E_0



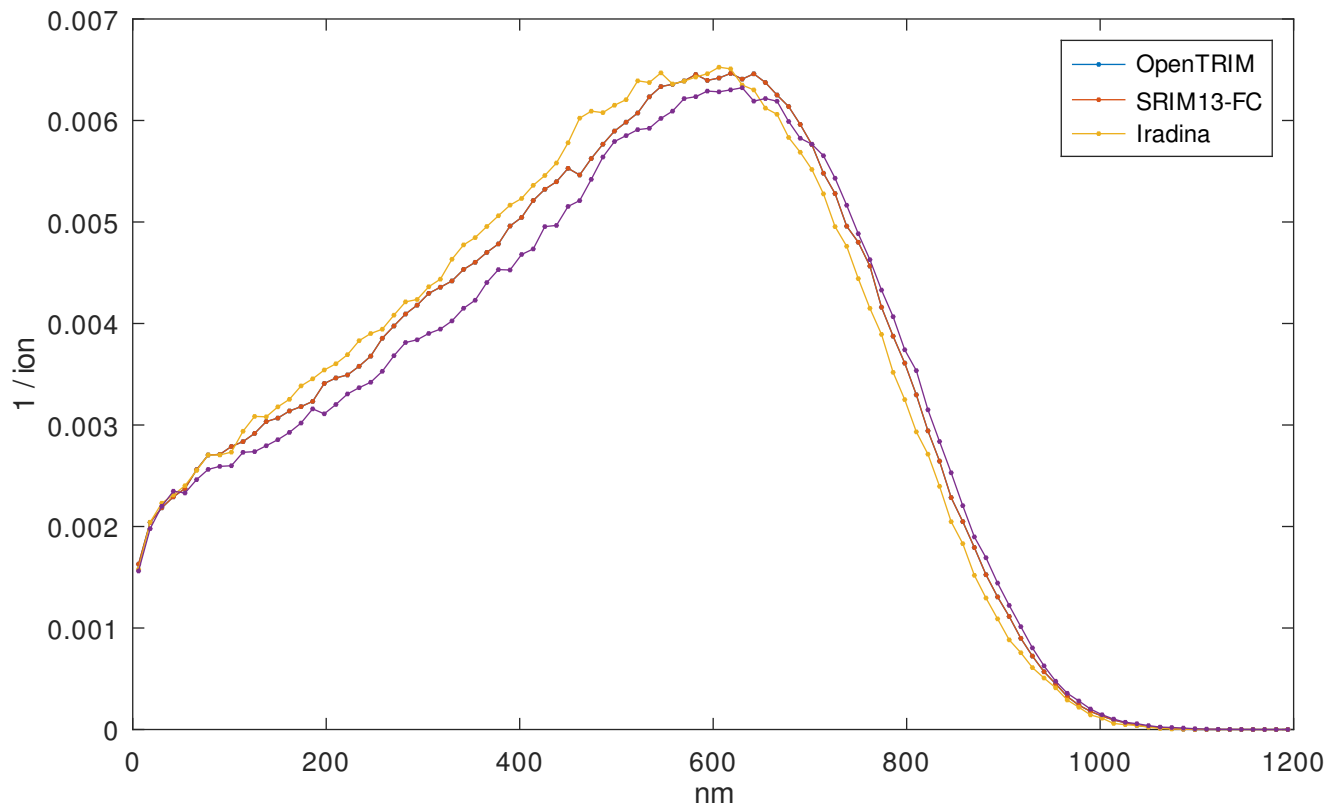
Phonon energy fraction E_{Ph}/E_0 by Fe ion



Phonon energy fraction E_{Ph}/E_0 by recoils



Total Phonon energy fraction E_{Ph}/E_0



Total fractional energy deposition $(E_I + E_{Ph})/E_0$

