

Benchmark #3

3MeV Xe on UO2

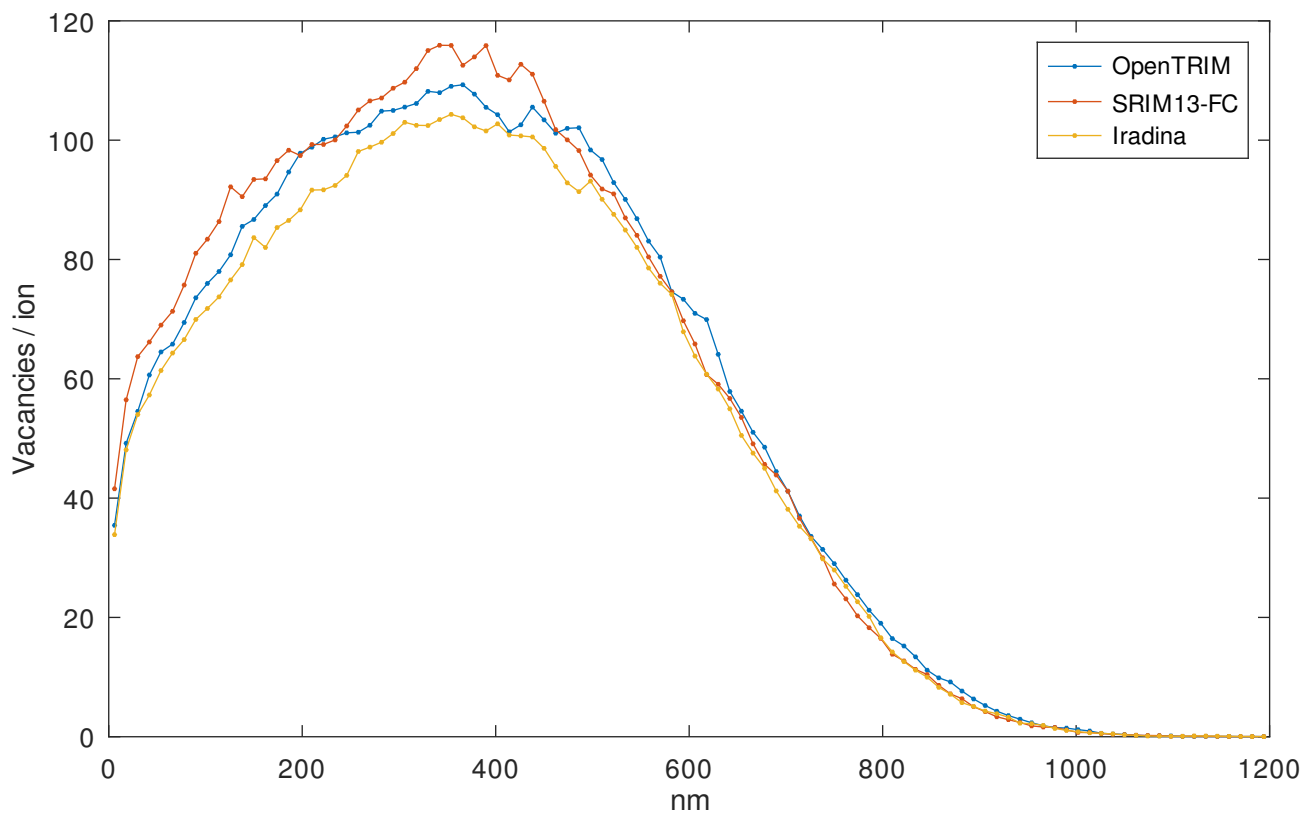
Ion energy E0 = 3e+06 eV

Target depth = 1200 nm

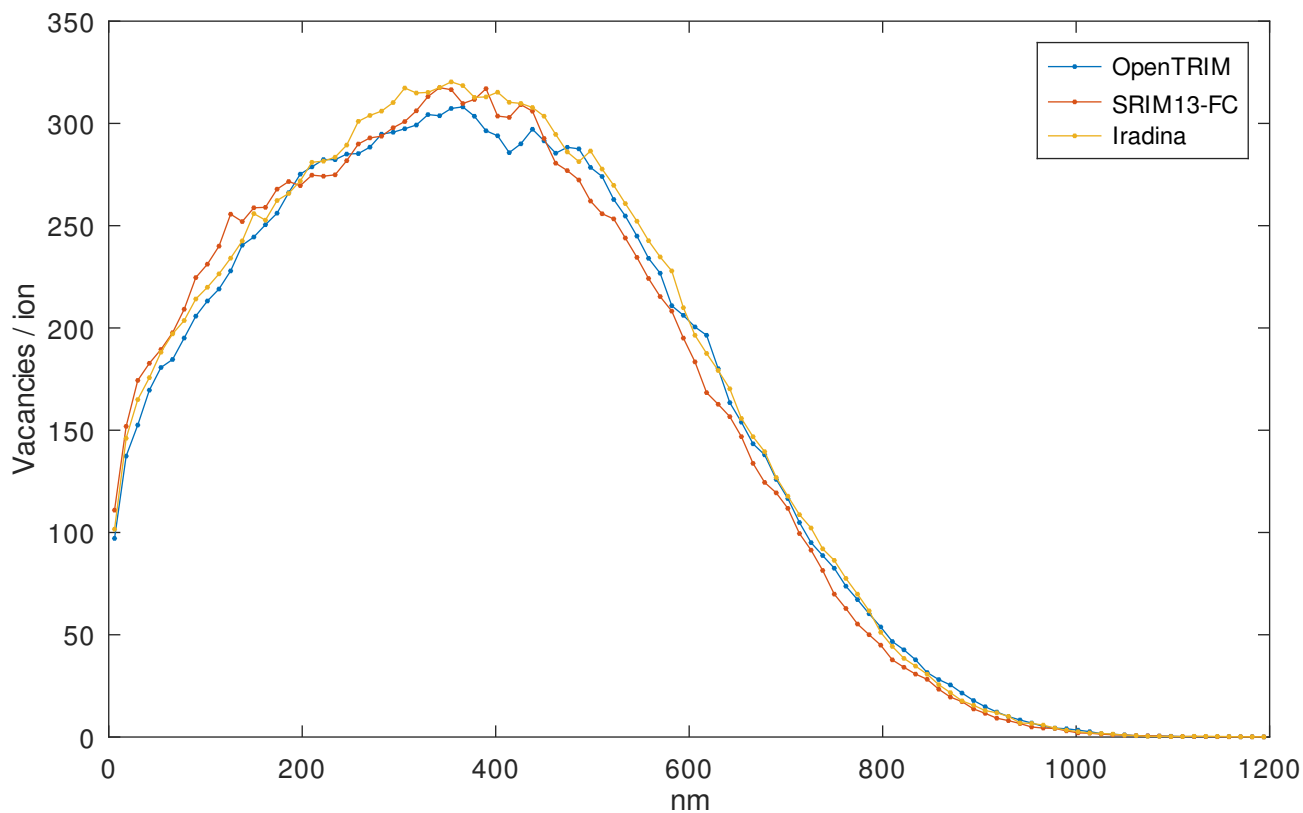
Summary Table

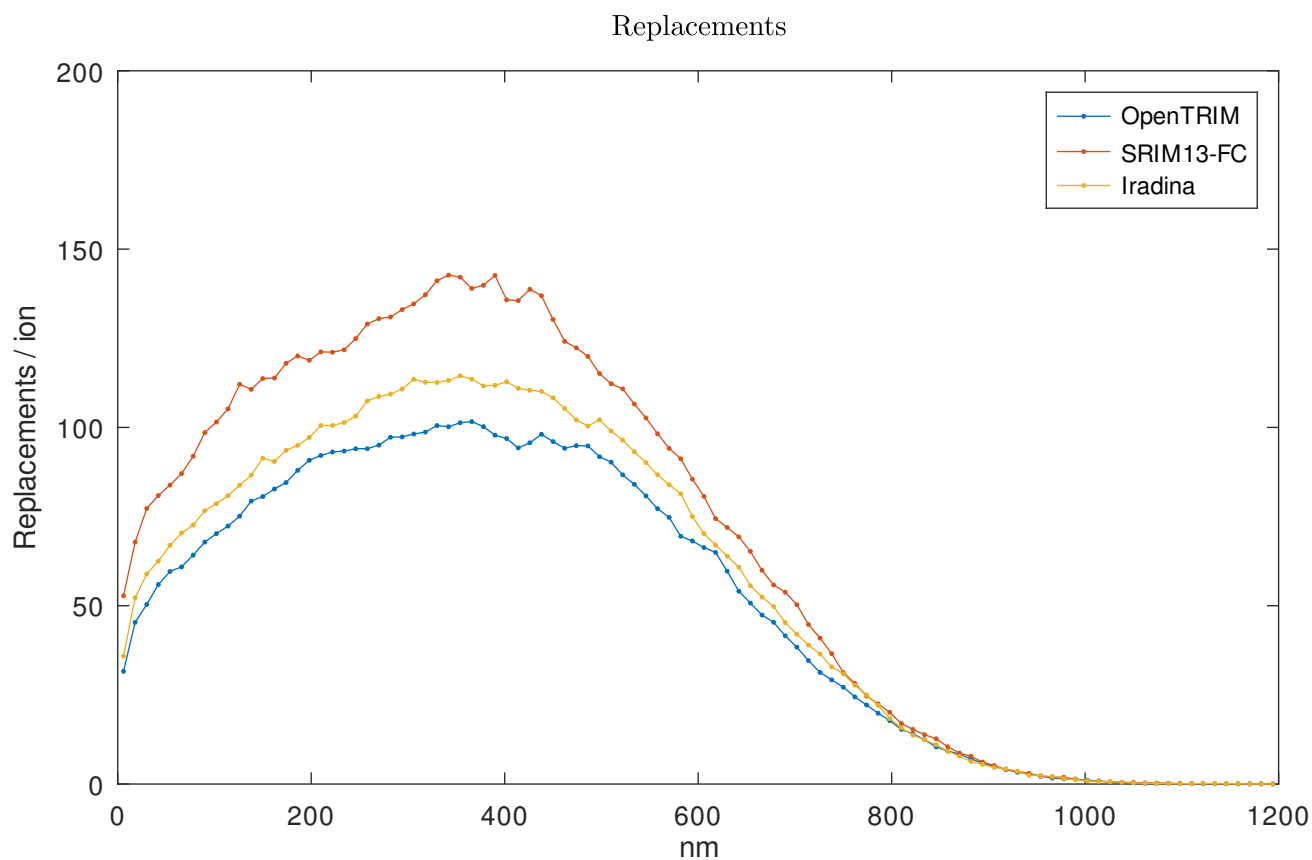
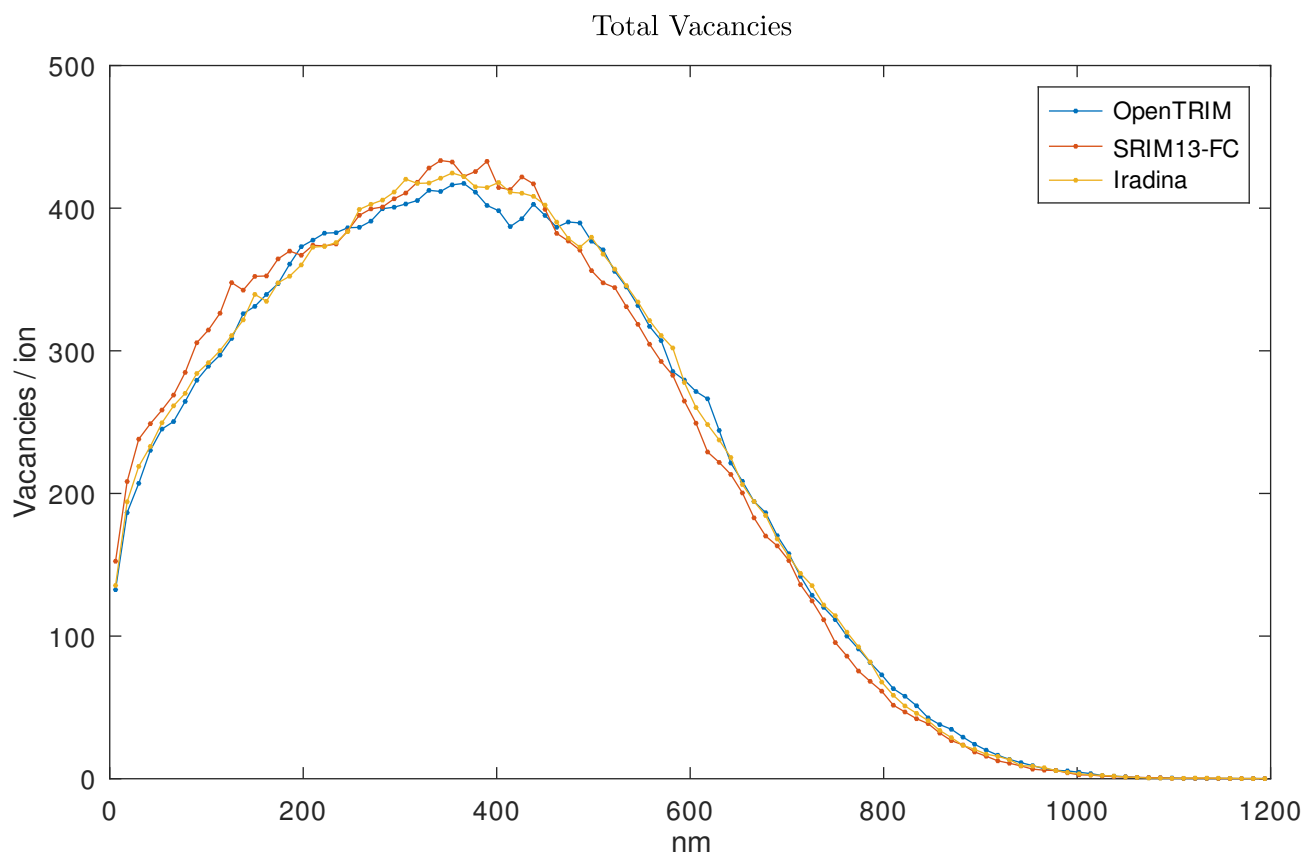
Quantity	OpenTRIM	SRIM13-FC	Iradina
V(U)	5.37e+03	5.48e+03	5.06e+03
V(O)	1.51e+04	1.51e+04	1.56e+04
V(tot)	2.05e+04	2.06e+04	2.06e+04
R(tot)	4.99e+03	6.7e+03	5.55e+03
I(Xe)	0.996	0.995	0.995
EI(Xe)/E0	0.299	0.294	0
EI(r)/E0	0.328	0.318	0
EI/E0	0.627	0.613	0.634
EPh(Xe)/E0	0.0018	0.00175	0
EPh(r)/E0	0.369	0.36	0
EPh(tot)/E0	0.371	0.362	0.363
1 - (EI+EPh)/E0	0.00241	0.0259	0.00242

Vacancies of U in Uranium oxide

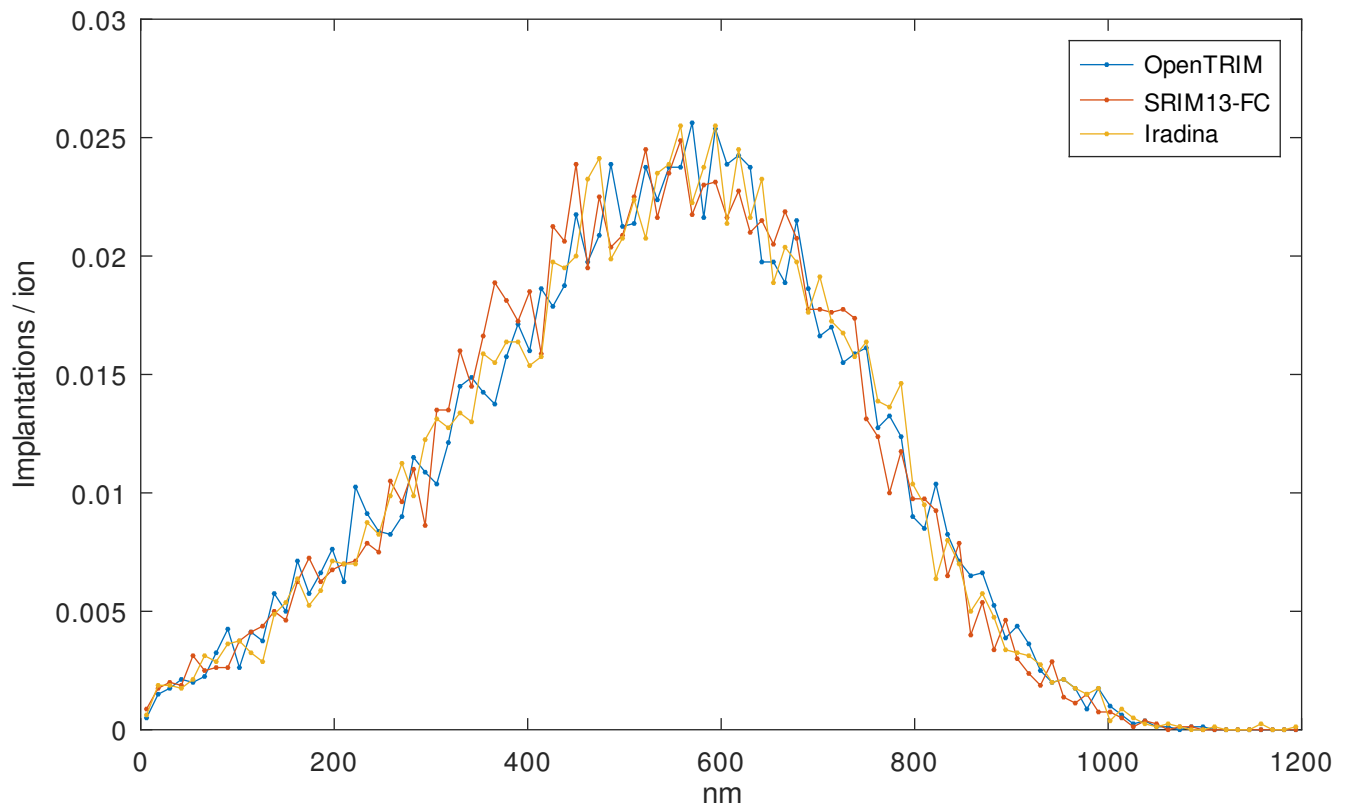


Vacancies of O in Uranium oxide

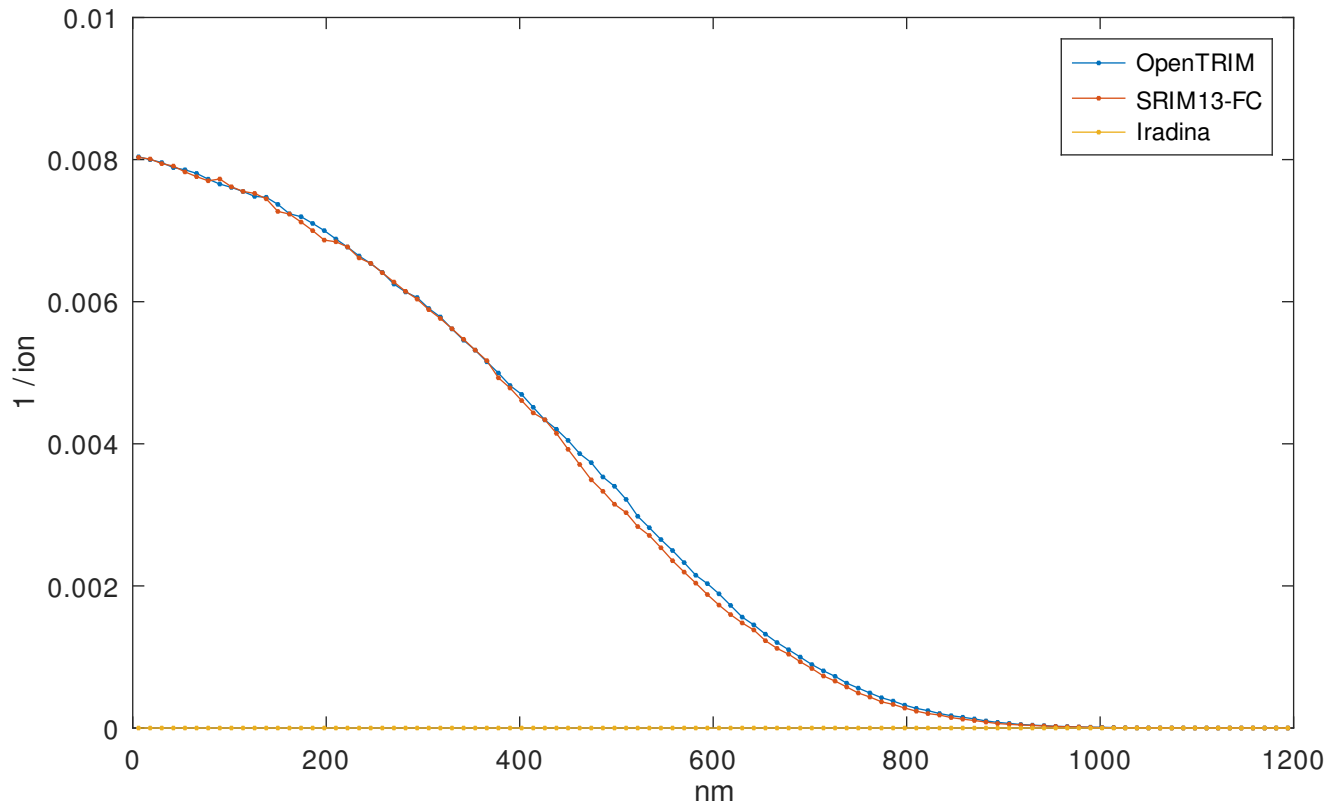




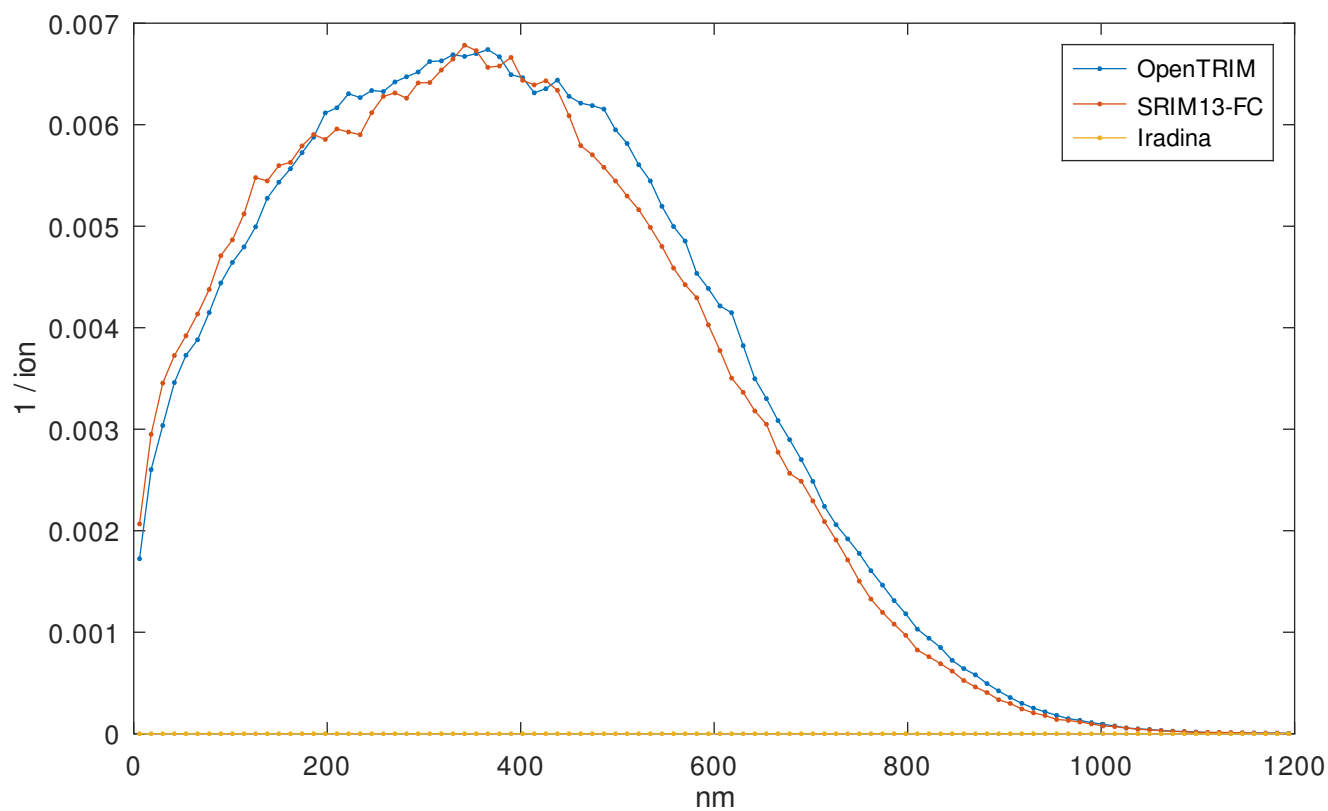
Implanted Xe ion



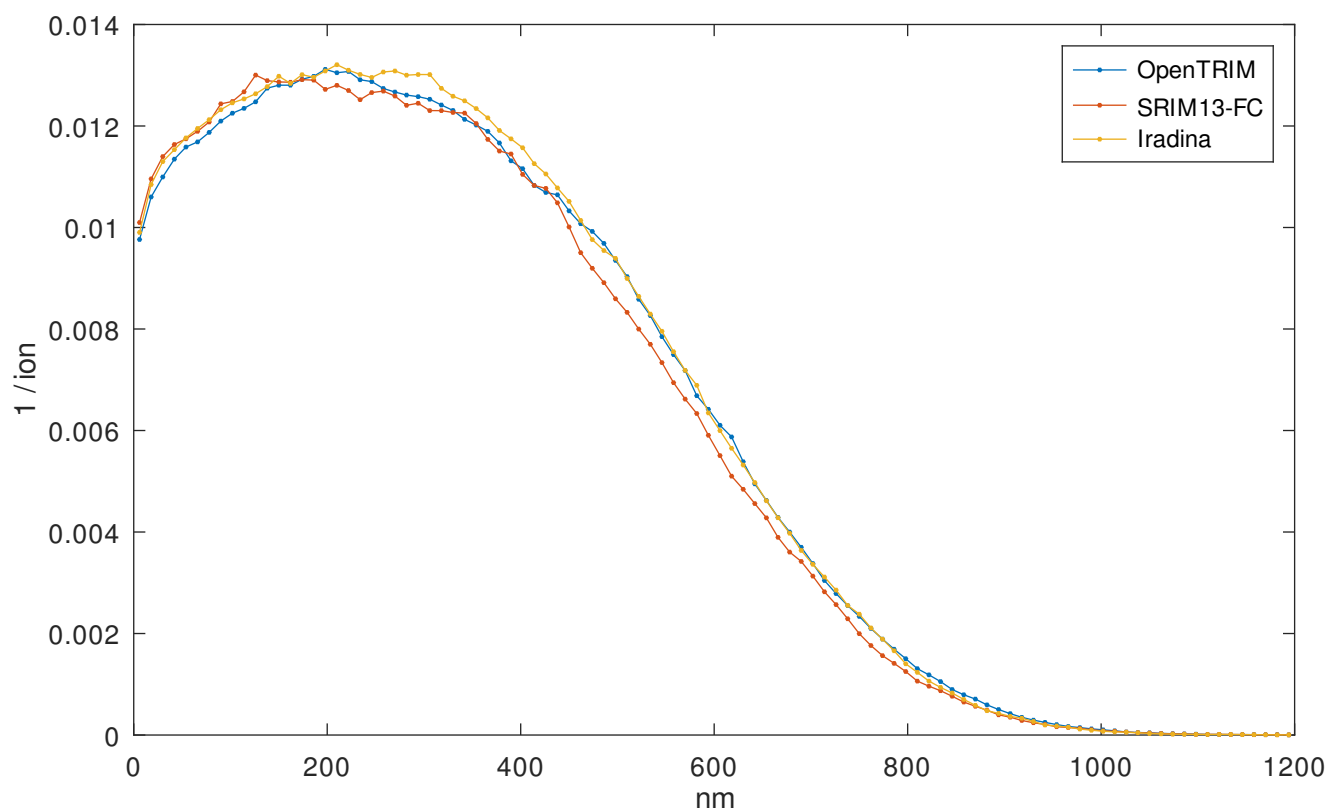
Ionization fraction E_I/E_0 by Xe ion



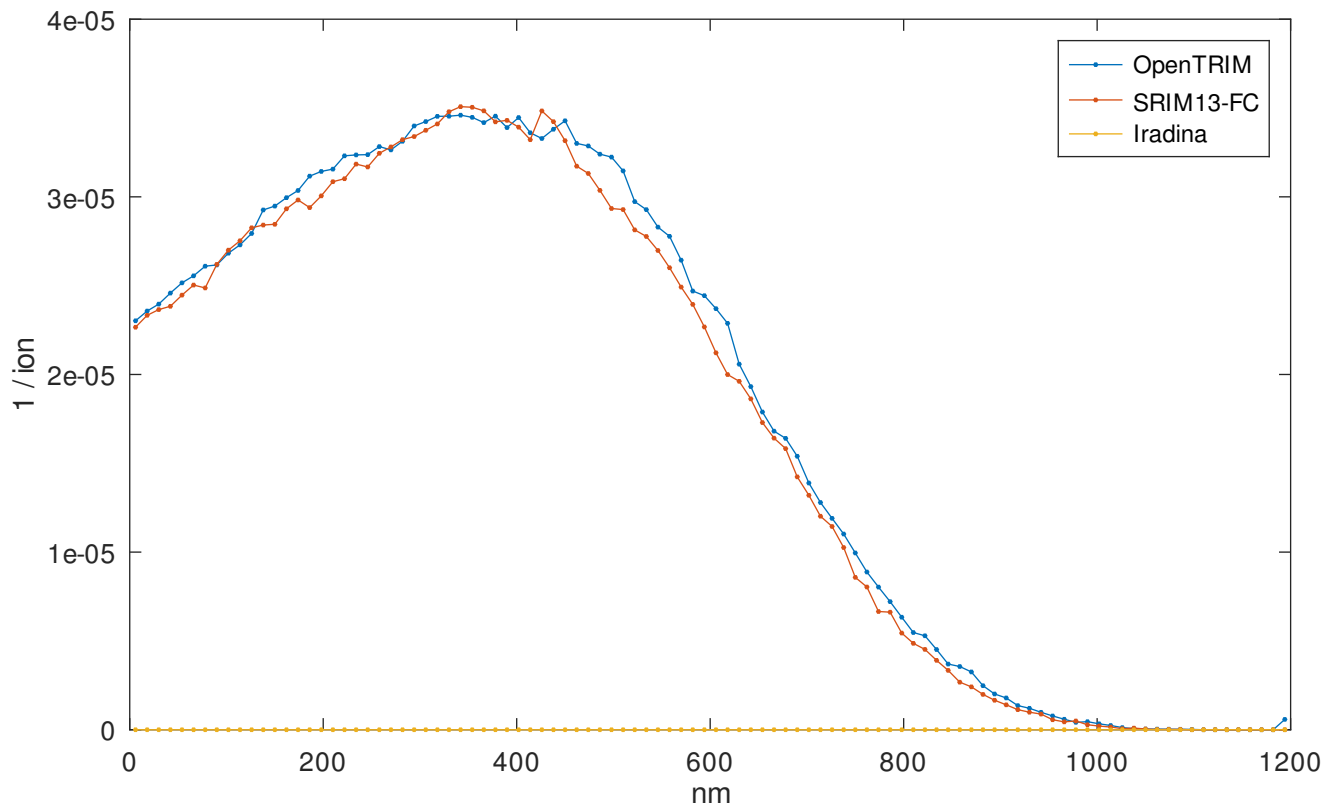
Ionization fraction E_I/E_0 by recoils



Total Ionization fraction E_I/E_0



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



Phonon energy fraction E_{Ph}/E_0 by recoils

