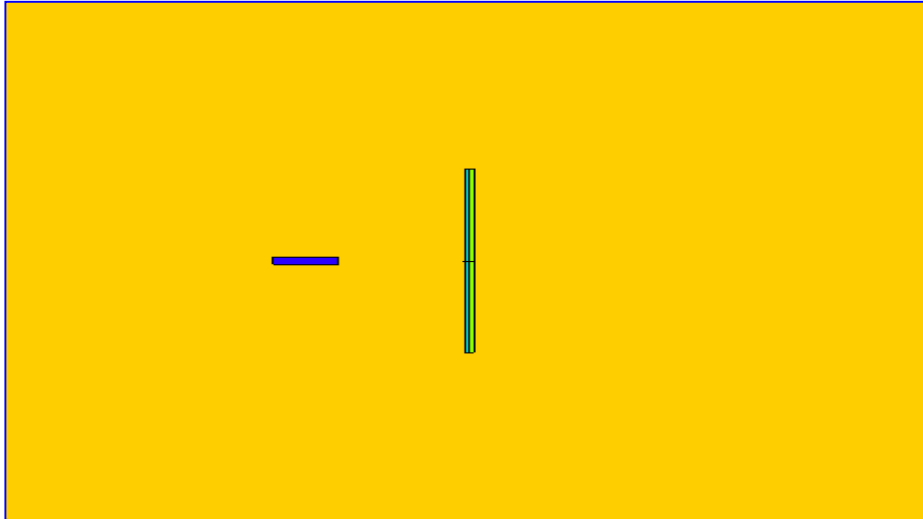
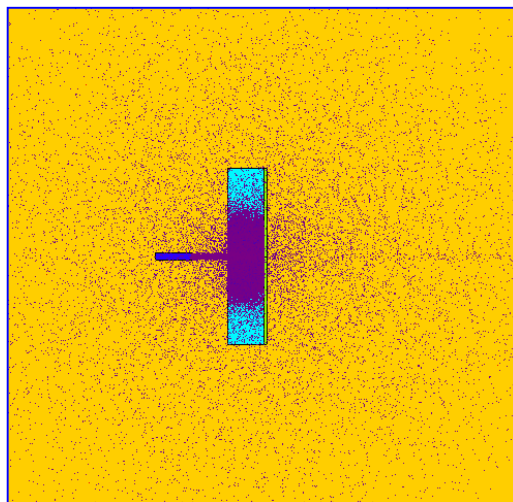
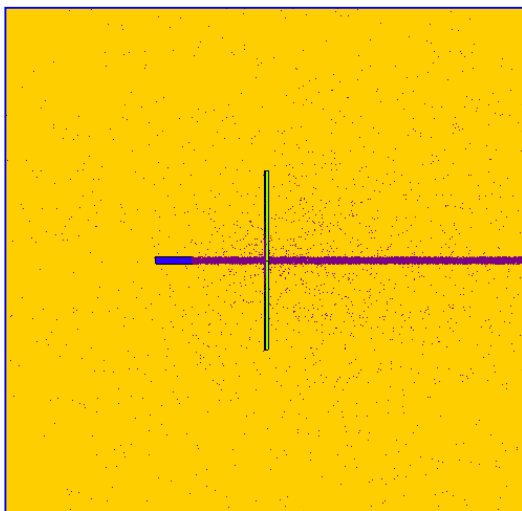


Simulation set-up: cylindrical source (beam) 1 cm in diameter, 10 cm in length (dark blue), uranium target (light blue) and detector (green)

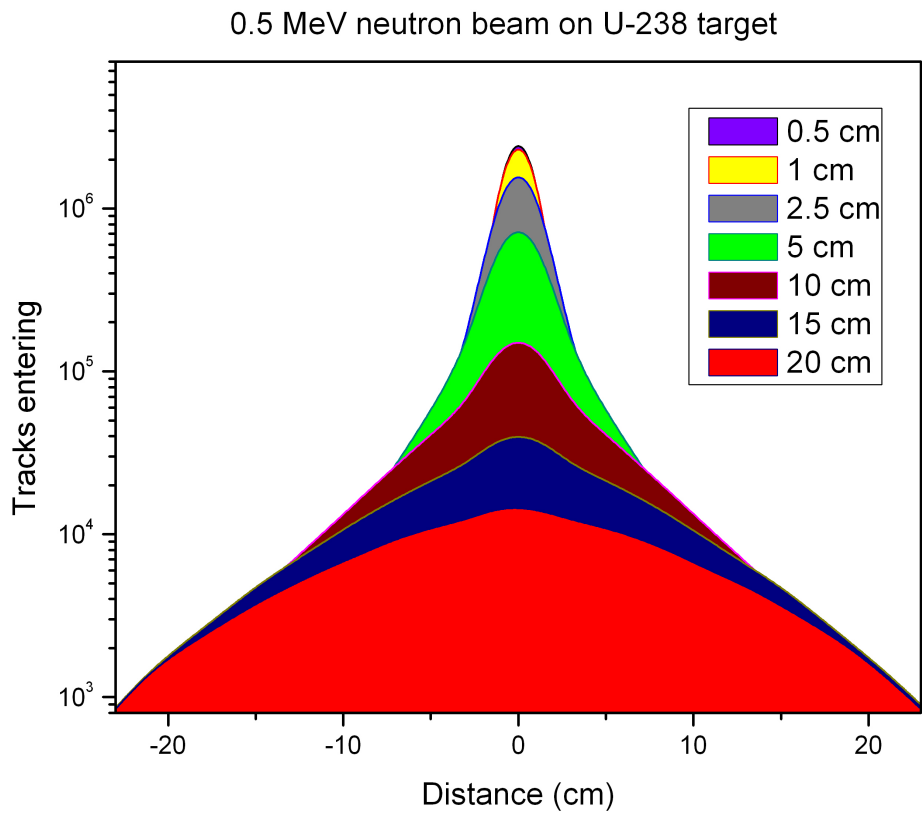
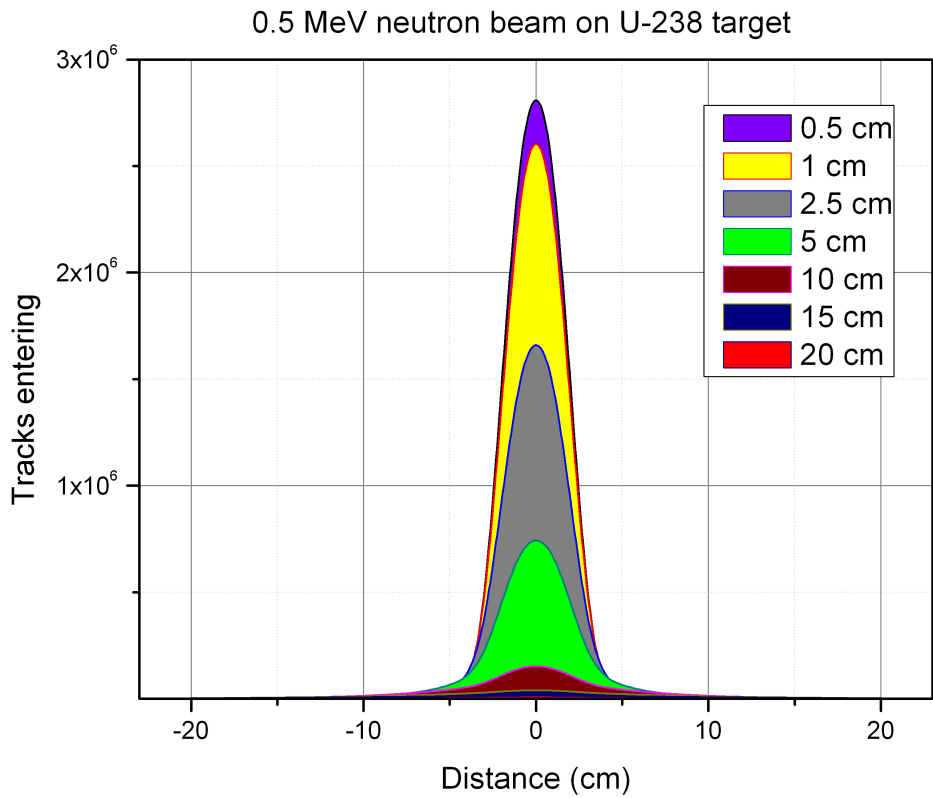


Example: Collision tracks for U-238 target of 0.25 cm and 10 cm:



### U-238 target, 0.5 MeV neutron beam

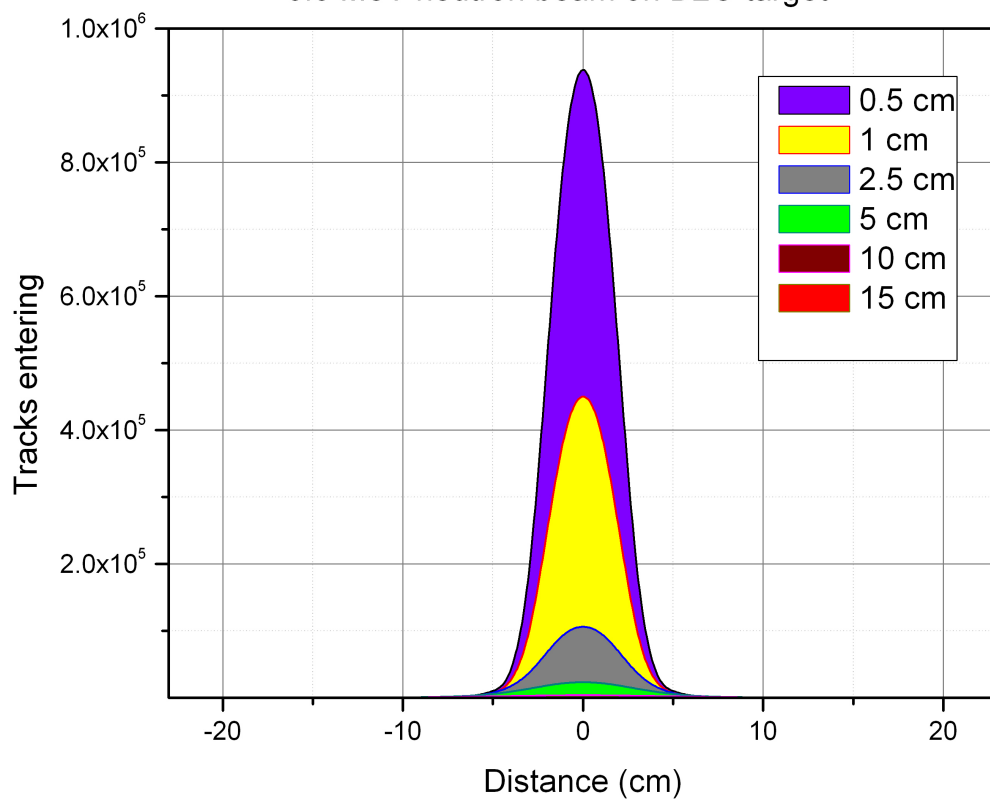
Distance cm	Tracks entering for different target thickness						
	0.5 cm	1 cm	2.5 cm	5 cm	10 cm	15 cm	20 cm
-23	62	63	81	157	546	863	847
-21	91	88	123	252	971	1468	1445
-19	125	144	215	495	1615	2197	2036
-17	174	208	352	904	2663	3222	2770
-15	237	302	640	1711	4212	4770	3737
-13	376	519	1202	3331	6728	6623	4835
-11	598	900	2572	6480	10531	9140	6132
-9	1084	1867	5833	12932	16713	12452	7546
-7	2261	4369	14072	26547	26428	16496	9376
-5	5918	12028	39353	57321	40999	21333	10904
-3	26052	51782	135552	135214	62826	26908	12311
-1	2930490	2714160	1724430	768082	155186	40259	14758
1	2930220	2714790	1725760	769188	155379	40345	14401
3	25843	51801	134964	134468	63342	26873	12272
5	5723	11831	38999	57318	40959	21379	10946
7	2211	4236	14186	26532	26370	16616	9352
9	1075	1887	5863	12806	16801	12415	7596
11	598	935	2567	6462	10594	9010	5959
13	358	553	1229	3208	6751	6534	4803
15	223	314	613	1692	4248	4750	3651
17	144	219	353	960	2655	3216	2725
19	105	163	218	534	1634	2149	1990
21	84	112	125	298	1019	1426	1334
23	66	82	85	167	587	897	845



### D2O target, 0.5 MeV neutron beam

Distance cm	Tracks entering for different target thickness					
	0.5 cm	1 cm	2.5 cm	5 cm	10 cm	15 cm
-23	47	21	22	4	5	5
-21	48	29	22	6	7	6
-19	75	40	24	9	27	20
-17	82	55	36	19	38	40
-15	129	61	51	39	91	62
-13	196	94	73	61	179	94
-11	282	166	91	145	315	169
-9	477	288	187	525	602	235
-7	1116	657	619	1614	1154	388
-5	4132	2598	3863	4851	1947	523
-3	41603	32438	27695	13118	2815	673
-1	976910	467698	109281	23483	3556	714
1	977258	468678	109528	23492	3598	764
3	41415	32763	27598	13081	2803	682
5	4185	2734	3747	4833	2002	534
7	1192	730	642	1503	1165	410
9	549	296	194	457	624	281
11	284	181	98	159	321	158
13	184	117	63	53	152	116
15	150	88	27	21	81	60
17	96	54	30	18	40	31
19	87	40	29	5	20	16
21	69	42	24	7	10	14
23	45	29	22	7	4	5

0.5 MeV neutron beam on D2O target



0.5 MeV neutron beam on D2O target

