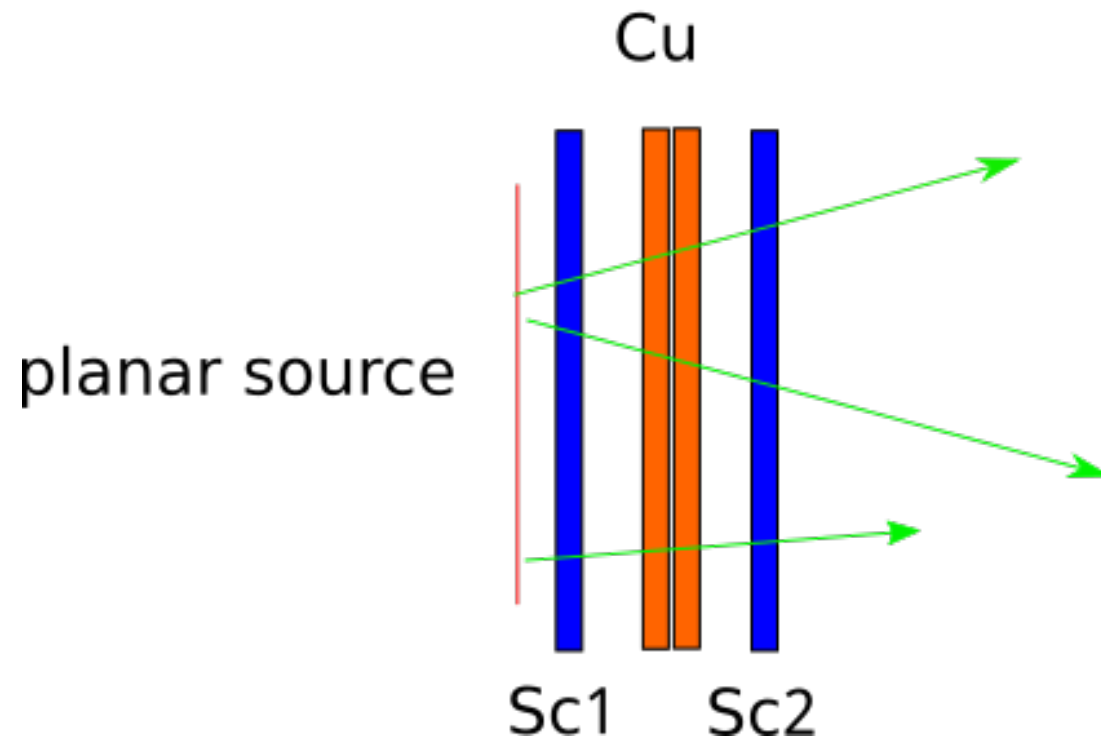
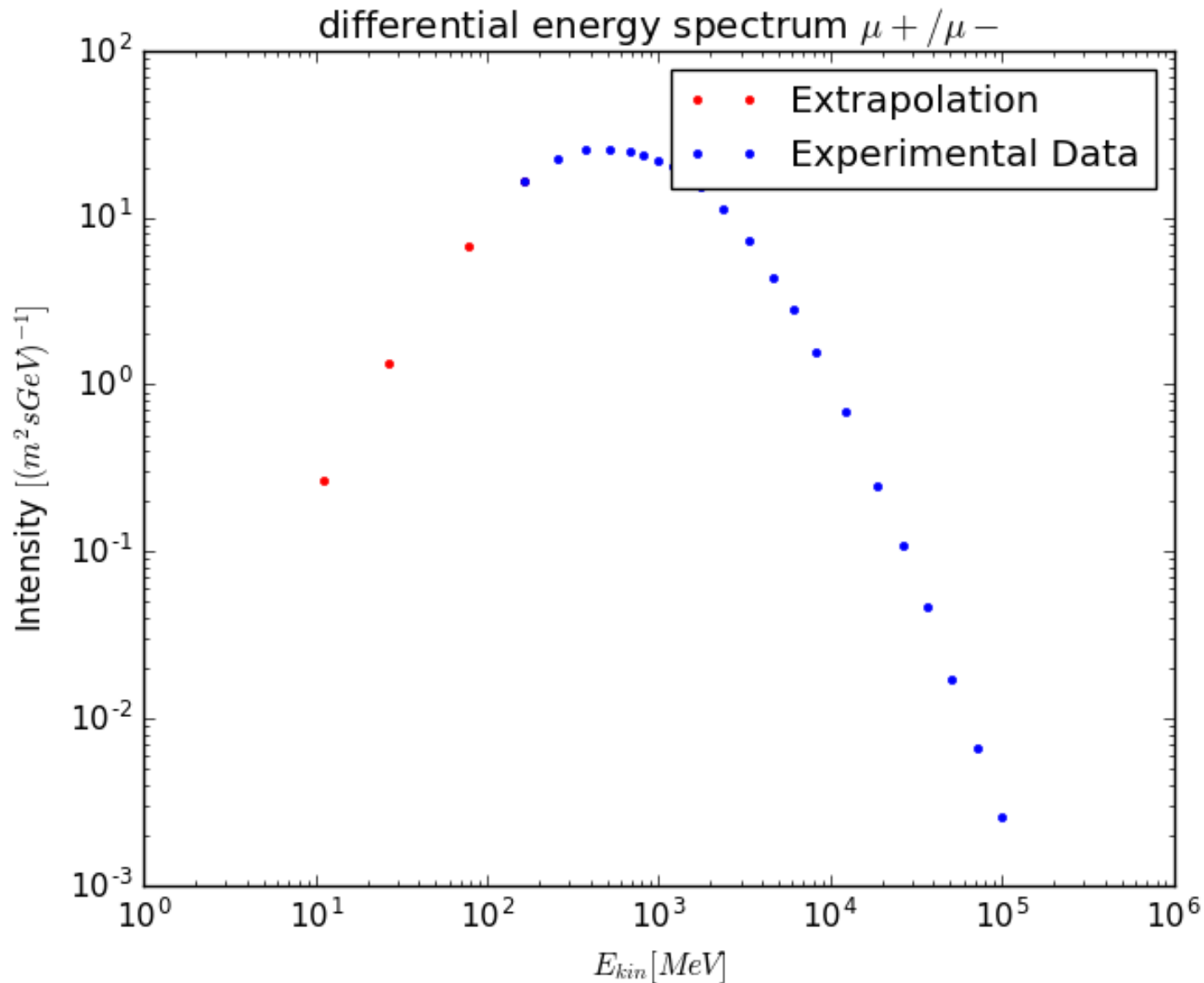


Detector

atmospheric μ^+/μ^-

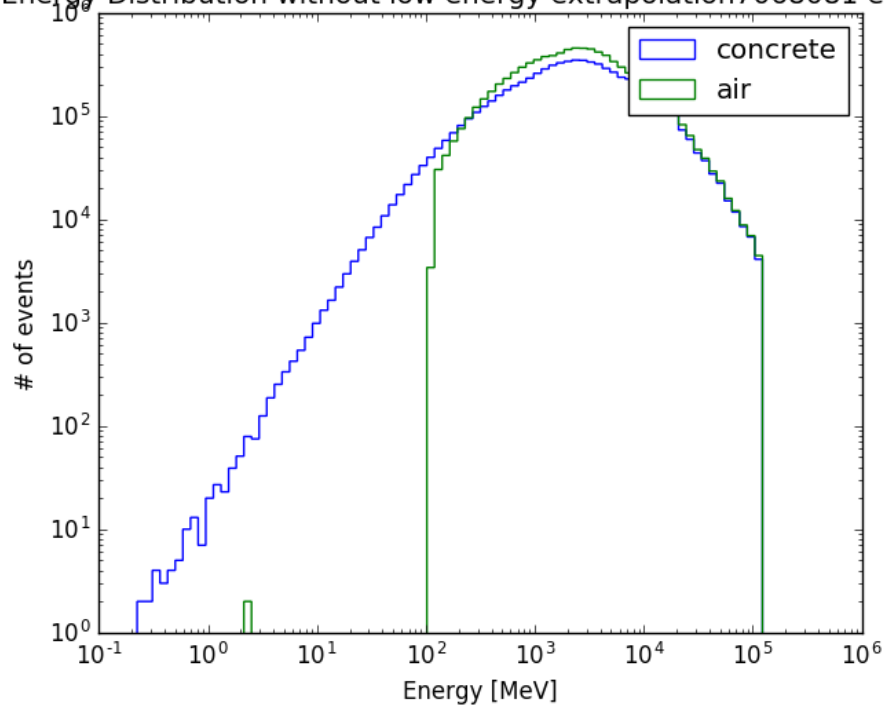


Low energy extrapolation

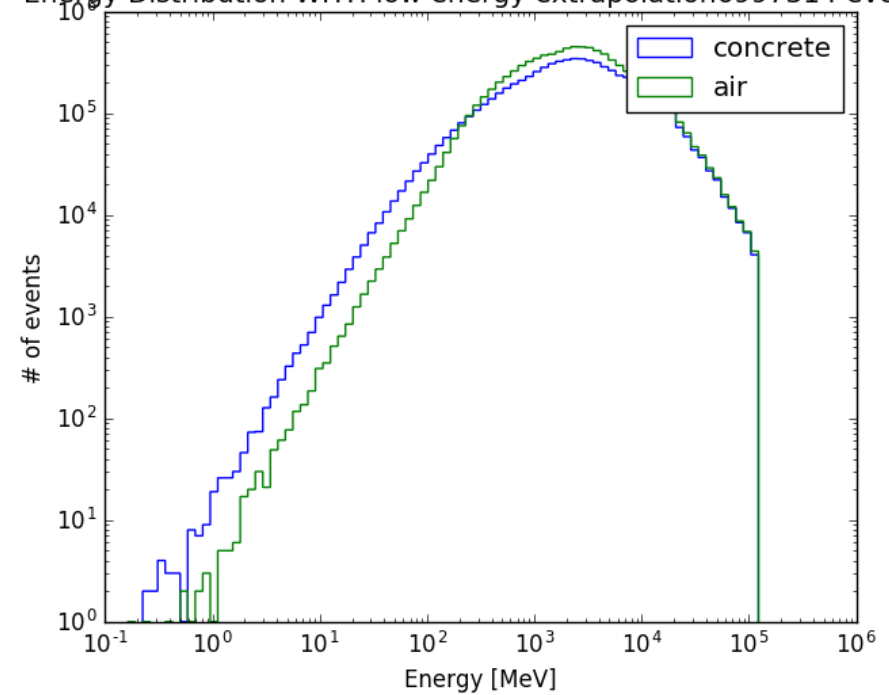


Concrete vs air

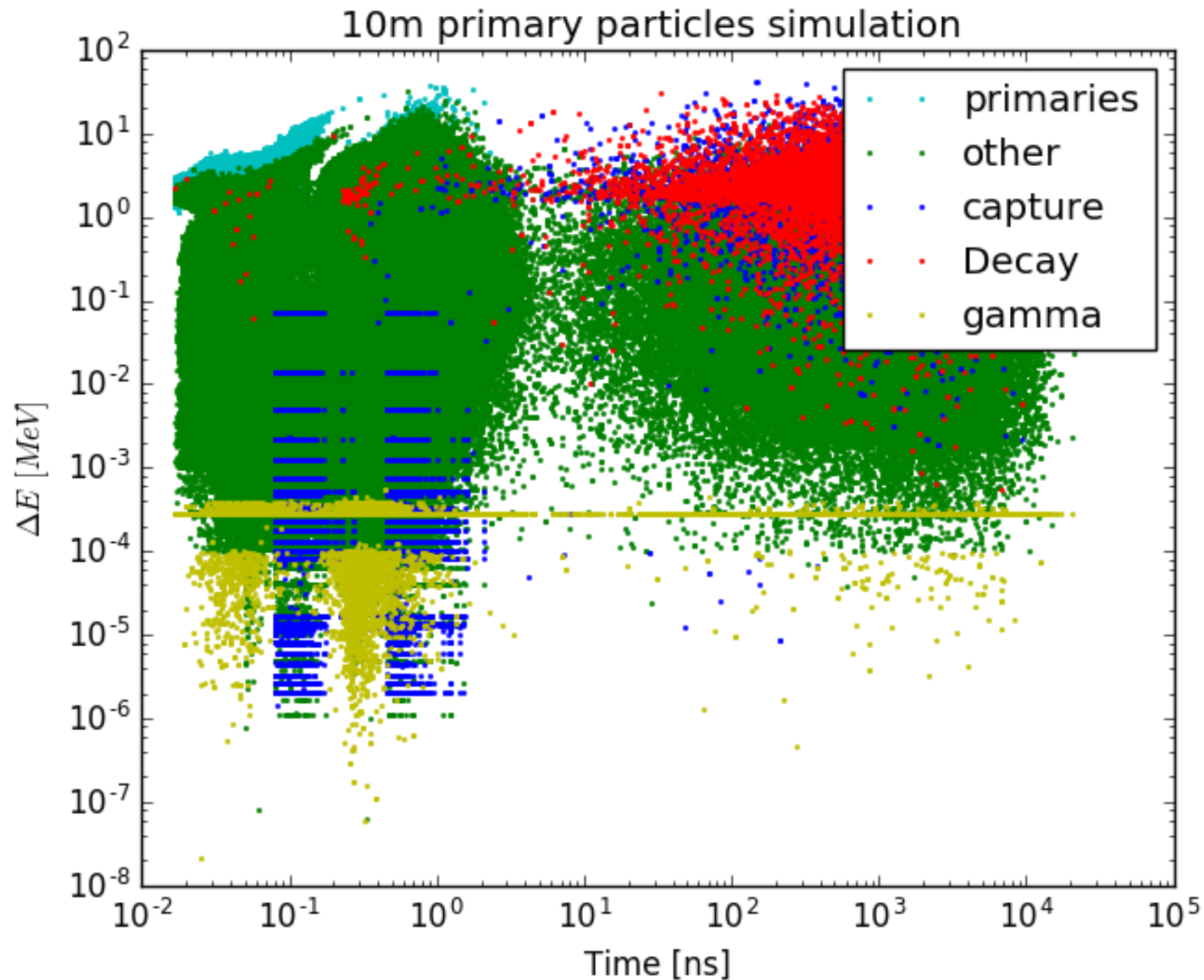
Energy Distribution without low energy extrapolation 7068081 events



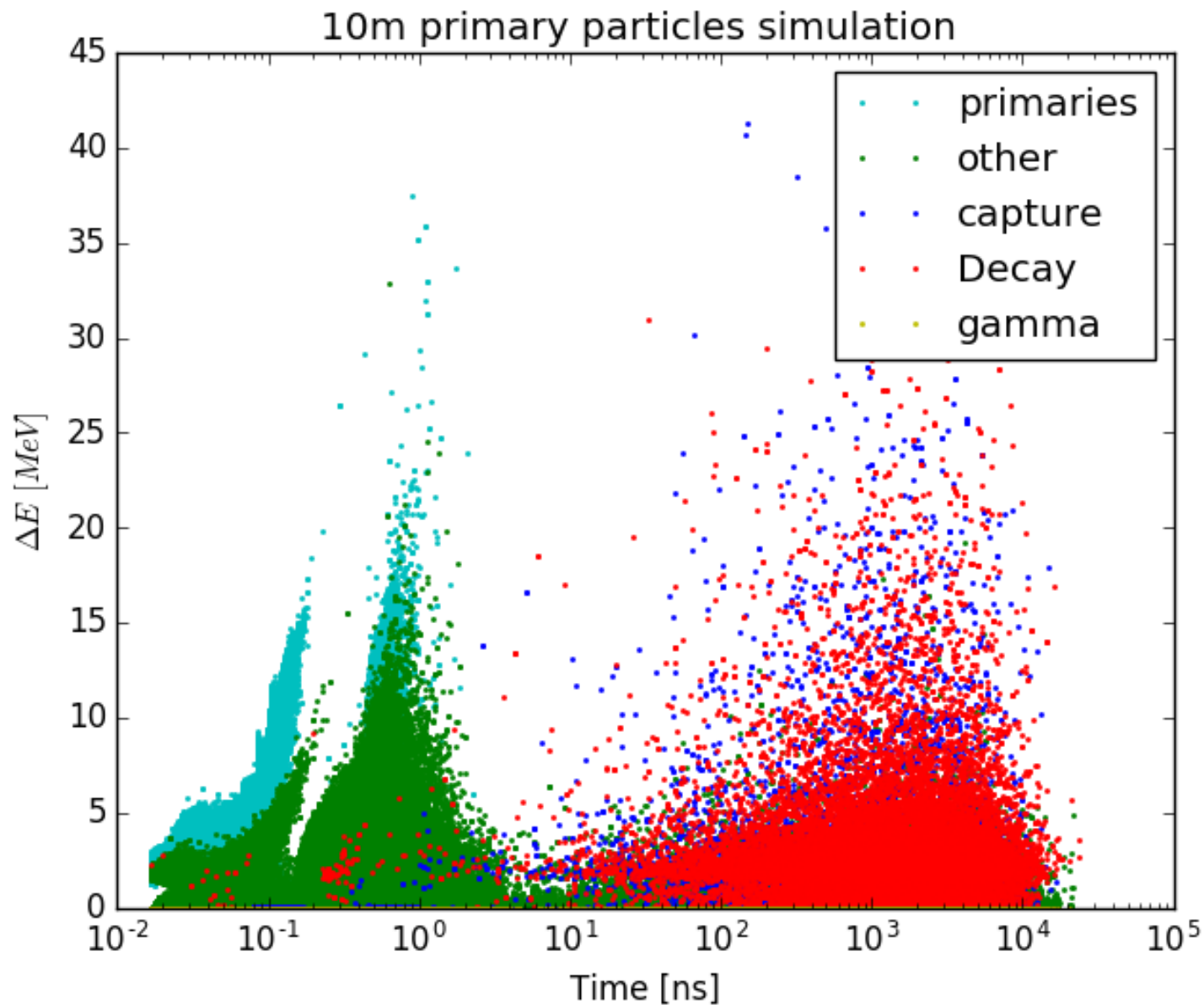
Energy Distribution WITH low energy extrapolation 6997314 events



Energy-deposit vs time



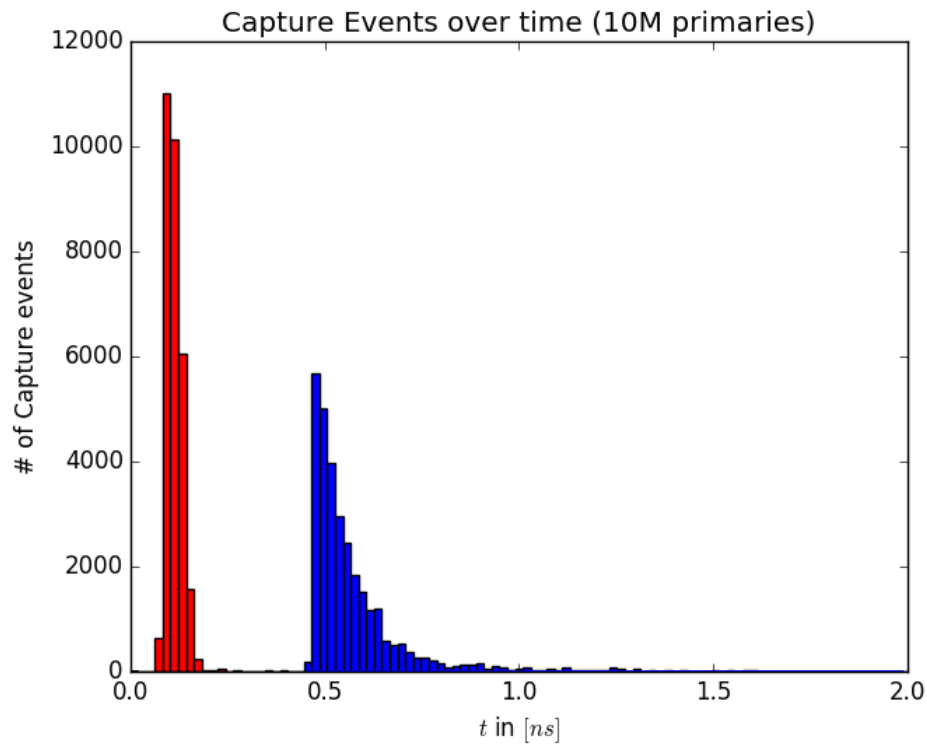
Energy-deposit vs time



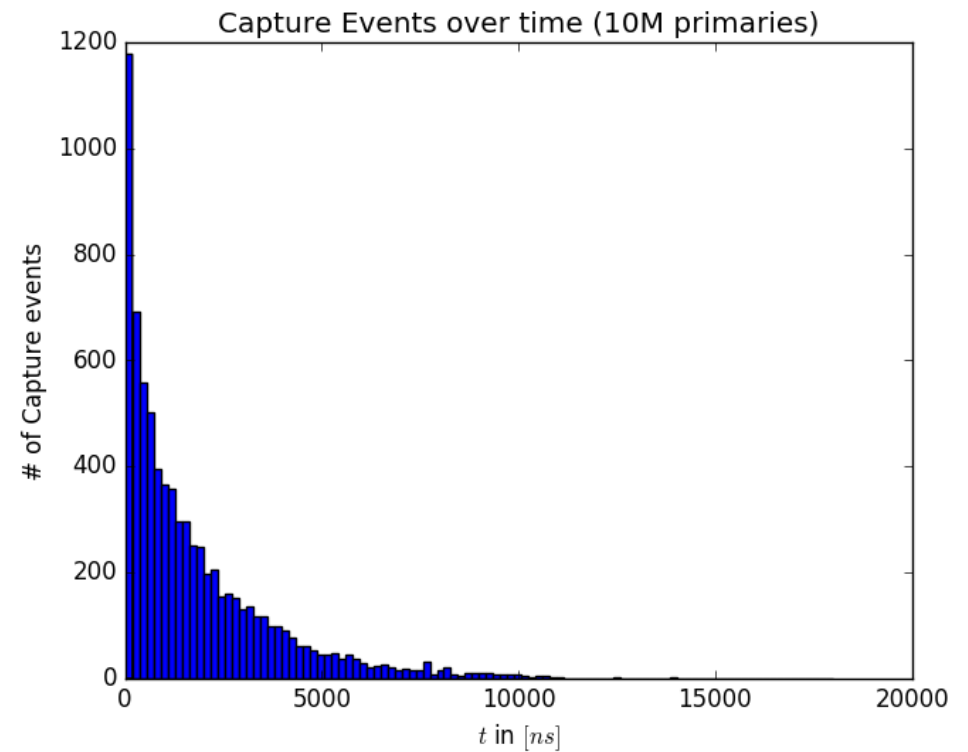
10m muon simulation

Type	Quantity
Total	29 195 113
Muons (primaries)	19 747 494
Decay	25 745
Capture	67 915
Gamma	212 288
Other (e+/e-)	9 209 586

Capture time constant



$$T_1 = 0.03 \text{ ns}$$
$$T_2 = 0.084 \text{ ns}$$



$$T = 1682 \text{ ns}$$

Realtime vs Simulation

	Realtime	Simulation
Muons per min	2160	1 400 000
Decay events per min	1	3600
Decay per 1k muons	4,6	25