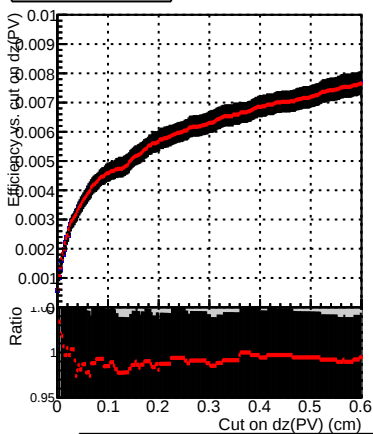
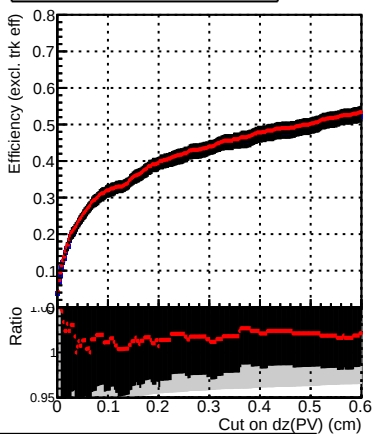


Efficiency vs. dz (PV)



Efficiency (tracking eff factorized out) vs. dz (PV)



Model	True rate	Fake rate
Model 1	0.99	0.01
Model 2	0.99	0.01
Model 3	0.99	0.01
Model 4	0.99	0.01
Model 5	0.99	0.01
Model 6	0.99	0.01
Model 7	0.99	0.01
Model 8	0.99	0.01
Model 9	0.99	0.01
Model 10	0.99	0.01
Model 11	0.99	0.01
Model 12	0.99	0.01
Model 13	0.99	0.01
Model 14	0.99	0.01
Model 15	0.99	0.01
Model 16	0.99	0.01
Model 17	0.99	0.01
Model 18	0.99	0.01
Model 19	0.99	0.01
Model 20	0.99	0.01
Model 21	0.99	0.01
Model 22	0.99	0.01
Model 23	0.99	0.01
Model 24	0.99	0.01
Model 25	0.99	0.01
Model 26	0.99	0.01
Model 27	0.99	0.01
Model 28	0.99	0.01
Model 29	0.99	0.01
Model 30	0.99	0.01
Model 31	0.99	0.01
Model 32	0.99	0.01
Model 33	0.99	0.01
Model 34	0.99	0.01
Model 35	0.99	0.01
Model 36	0.99	0.01
Model 37	0.99	0.01
Model 38	0.99	0.01
Model 39	0.99	0.01
Model 40	0.99	0.01
Model 41	0.99	0.01
Model 42	0.99	0.01
Model 43	0.99	0.01
Model 44	0.99	0.01
Model 45	0.99	0.01
Model 46	0.99	0.01
Model 47	0.99	0.01
Model 48	0.99	0.01
Model 49	0.99	0.01
Model 50	0.99	0.01
Model 51	0.99	0.01
Model 52	0.99	0.01
Model 53	0.99	0.01
Model 54	0.99	0.01
Model 55	0.99	0.01
Model 56	0.99	0.01
Model 57	0.99	0.01
Model 58	0.99	0.01
Model 59	0.99	0.01
Model 60	0.99	0.01
Model 61	0.99	0.01
Model 62	0.99	0.01
Model 63	0.99	0.01
Model 64	0.99	0.01
Model 65	0.99	0.01
Model 66	0.99	0.01
Model 67	0.99	0.01
Model 68	0.99	0.01
Model 69	0.99	0.01
Model 70	0.99	0.01
Model 71	0.99	0.01
Model 72	0.99	0.01
Model 73	0.99	0.01
Model 74	0.99	0.01
Model 75	0.99	0.01
Model 76	0.99	0.01
Model 77	0.99	0.01
Model 78	0.99	0.01
Model 79	0.99	0.01
Model 80	0.99	0.01
Model 81	0.99	0.01
Model 82	0.99	0.01
Model 83	0.99	0.01
Model 84	0.99	0.01
Model 85	0.99	0.01
Model 86	0.99	0.01
Model 87	0.99	0.01
Model 88	0.99	0.01
Model 89	0.99	0.01
Model 90	0.99	0.01
Model 91	0.99	0.01
Model 92	0.99	0.01
Model 93	0.99	0.01
Model 94	0.99	0.01
Model 95	0.99	0.01
Model 96	0.99	0.01
Model 97	0.99	0.01
Model 98	0.99	0.01
Model 99	0.99	0.01
Model 100	0.99	0.01

—●— DQM_TT__mkFit-DQM_updated-0

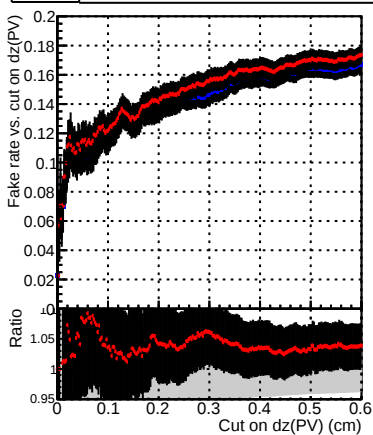


Figure 1 consists of two panels. The top panel plots the 'Pileup rate vs. cut on dz(PV)' on the y-axis (ranging from 0.05 to 0.5) against the 'Cut on dz(PV) (cm)' on the x-axis (ranging from 0 to 0.6). A black line represents the pileup rate, and a red line represents the cut on dz(PV). Both lines start at (0,0) and increase monotonically, with the red line slightly above the black line. The bottom panel plots the 'Ratio' on the y-axis (ranging from 0.95 to 1.05) against the same x-axis. It shows two lines: a black line representing the ratio of the pileup rate to the cut on dz(PV), and a red line representing the ratio of the cut on dz(PV) to the pileup rate. Both lines fluctuate around 1.0, with the red line generally higher than the black line.