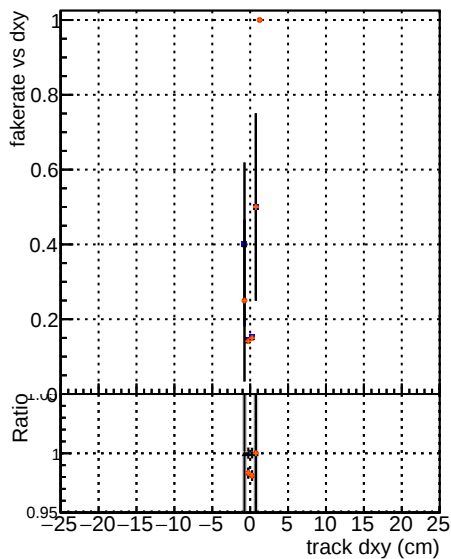
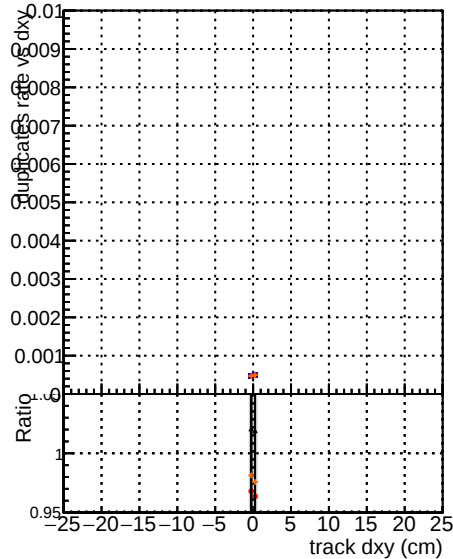


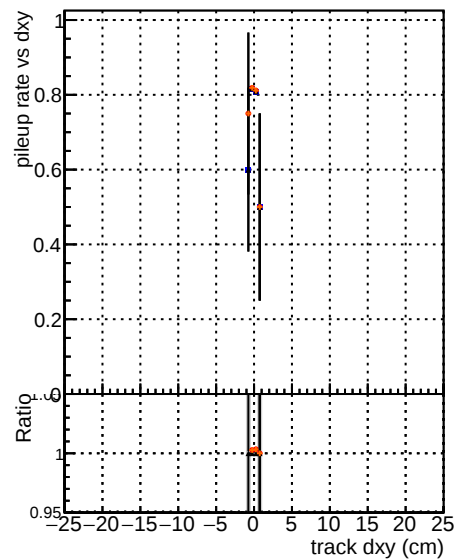
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Fake rate vs d

d	DGM Told-lowpt	mkt Told-lowpt	Fitt Told-lowpt	DGM Told-highpt	mkt Told-highpt	Fitt Told-highpt	DGM Ttrain-lowpt	mkt Ttrain-lowpt	Fitt Ttrain-lowpt	DGM Ttrain-highpt	mkt Ttrain-highpt	Fitt Ttrain-highpt	DGM TNEWdefault	mkt TNEWdefault	Fitt TNEWdefault
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.1	0.05	0.02	0.01	0.05	0.02	0.01	0.05	0.02	0.01	0.05	0.02	0.01	0.05	0.02	0.01
0.2	0.10	0.04	0.02	0.10	0.04	0.02	0.10	0.04	0.02	0.10	0.04	0.02	0.10	0.04	0.02
0.3	0.15	0.06	0.03	0.15	0.06	0.03	0.15	0.06	0.03	0.15	0.06	0.03	0.15	0.06	0.03
0.4	0.20	0.08	0.04	0.20	0.08	0.04	0.20	0.08	0.04	0.20	0.08	0.04	0.20	0.08	0.04
0.5	0.25	0.10	0.05	0.25	0.10	0.05	0.25	0.10	0.05	0.25	0.10	0.05	0.25	0.10	0.05
0.6	0.30	0.12	0.06	0.30	0.12	0.06	0.30	0.12	0.06	0.30	0.12	0.06	0.30	0.12	0.06
0.7	0.35	0.14	0.07	0.35	0.14	0.07	0.35	0.14	0.07	0.35	0.14	0.07	0.35	0.14	0.07
0.8	0.40	0.16	0.08	0.40	0.16	0.08	0.40	0.16	0.08	0.40	0.16	0.08	0.40	0.16	0.08
0.9	0.45	0.18	0.09	0.45	0.18	0.09	0.45	0.18	0.09	0.45	0.18	0.09	0.45	0.18	0.09
1.0	0.50	0.20	0.10	0.50	0.20	0.10	0.50	0.20	0.10	0.50	0.20	0.10	0.50	0.20	0.10

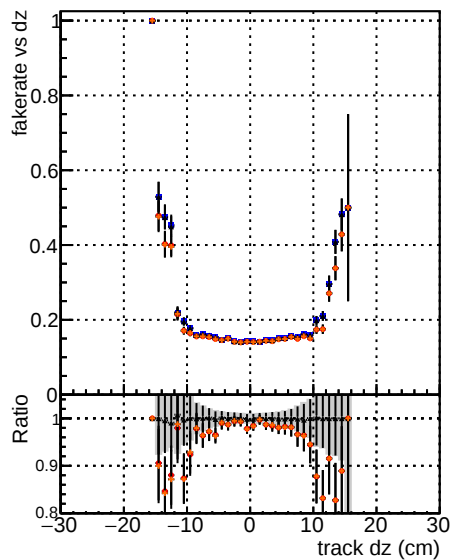


Figure 1 consists of two panels. The top panel shows the pileup rate (y-axis, 0 to 1) versus track dz (x-axis, -30 to 30 cm). The data points (black circles with error bars) show a peak in the pileup rate around $dz = 0$ cm, reaching approximately 0.8. The bottom panel shows the ratio (y-axis, 0.95 to 1.0) versus track dz (x-axis, -30 to 30 cm). The data points (black circles with error bars) show a dip in the ratio around $dz = 0$ cm, reaching approximately 0.98. Both panels include a dashed line representing the expected behavior.