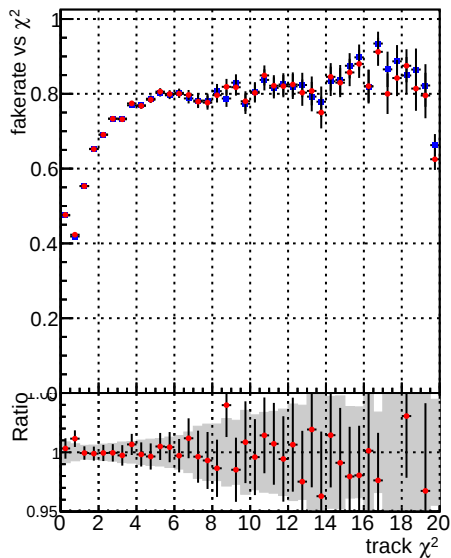
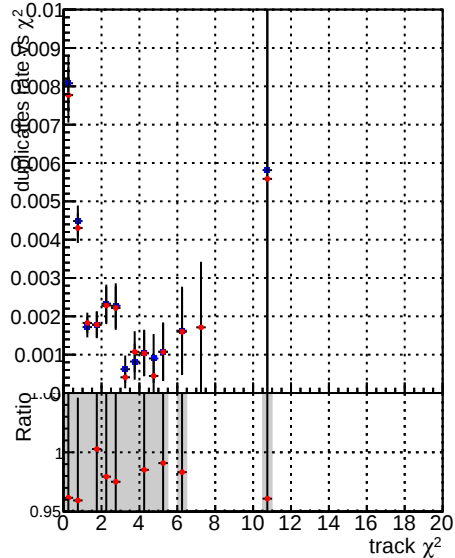


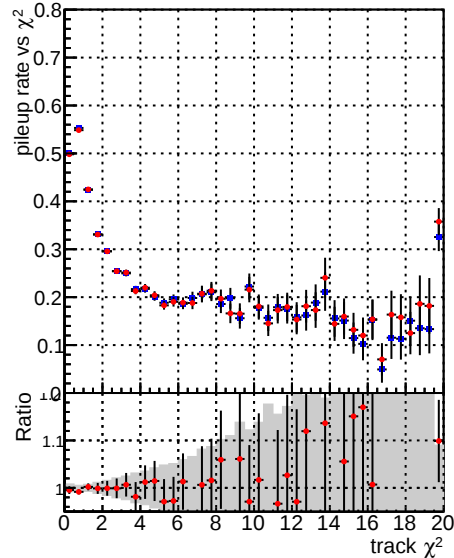
Fake rate vs normalized χ^2



Duplicates Rate vs normalized χ^2



Pileup rate vs normalized χ^2



Fake rate vs.  DQM_CRF_TTbase
DQM_CKF_TT_retrainOldFiles125_v2_prelimWPM_epoch2

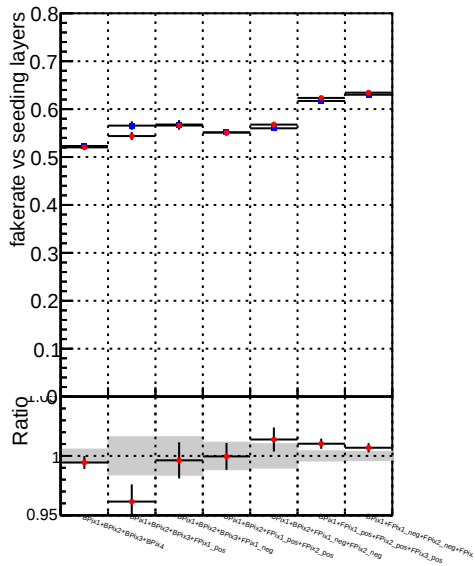


Figure 1 is a line plot showing the ratio of the number of seeds per generation to the number of seeds per generation in the previous generation (Ratio) versus the number of generations (log10). The y-axis ranges from 0.9 to 1.0, and the x-axis ranges from 0 to 10. The plot displays data for five different experimental conditions: (1) F1 x F1, (2) F1 x F2, (3) F2 x F2, (4) F1 x F3, and (5) F2 x F3. The ratio is generally close to 1.0, indicating a stable population size over generations. Error bars are shown for each data point.

log10 generations	Ratio (F1 x F1)	Ratio (F1 x F2)	Ratio (F2 x F2)	Ratio (F1 x F3)	Ratio (F2 x F3)
0	0.90	0.90	0.90	0.90	0.90
1	0.90	0.90	0.90	0.90	0.90
2	0.90	0.90	0.90	0.90	0.90
3	0.90	0.90	0.90	0.90	0.90
4	0.90	0.90	0.90	0.90	0.90
5	0.90	0.90	0.90	0.90	0.90
6	0.90	0.90	0.90	0.90	0.90
7	0.90	0.90	0.90	0.90	0.90
8	0.90	0.90	0.90	0.90	0.90
9	0.90	0.90	0.90	0.90	0.90
10	0.90	0.90	0.90	0.90	0.90

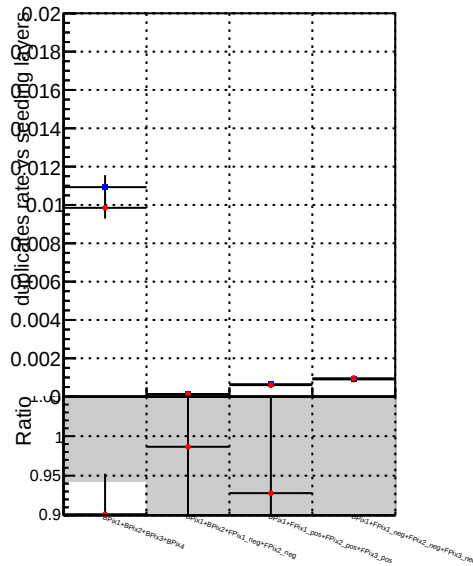


Figure 1 consists of two vertically stacked plots. The top plot shows the 'pileup rate vs seeding layers' for various configurations. The y-axis ranges from 0.35 to 0.5. The x-axis labels are: 'bfpu1', 'bfpu1+bfpu2+bfpu3+bfpu4', 'bfpu1+bfpu2+bfpu3+bfpu1_pos', 'bfpu1+bfpu2+bfpu3+bfpu1_neg', 'bfpu1+bfpu2+bfpu1_pos+bfpu2_pos', 'bfpu1+bfpu1_neg+bfpu2_neg+bfpu3_pos', 'bfpu1+bfpu1_neg+bfpu2_pos+bfpu3_pos', and 'bfpu1+bfpu1_neg+bfpu2_pos+bfpu3_pos'. The bottom plot shows the 'Ratio' of the proposed method to the baseline. The y-axis ranges from 0.95 to 1.0. The x-axis labels are the same as the top plot. Both plots include error bars and shaded regions representing uncertainty.

