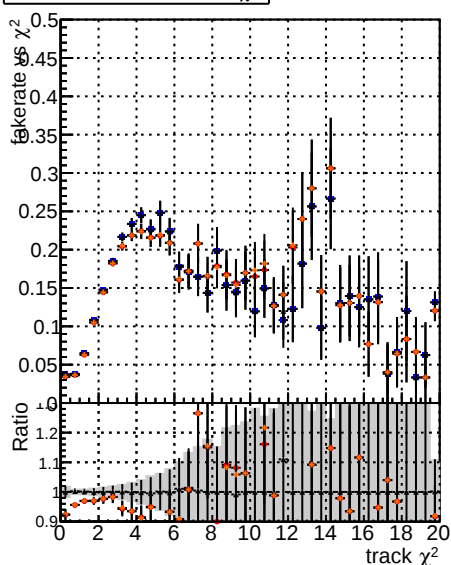
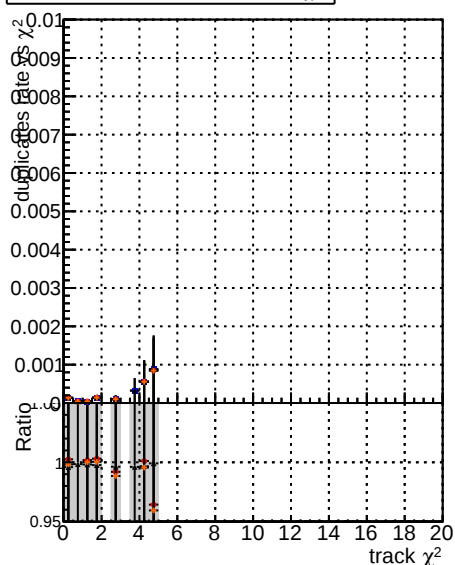


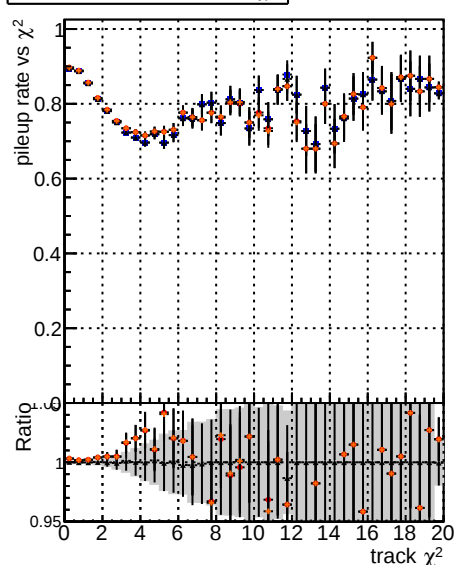
Fake rate vs normalized χ^2



Duplicates Rate vs normalized χ^2



Pileup rate vs normalized χ^2



Fake rate vs.  DDM mkFit Tfold lowpt (atrain-lowpt) (old-lowpt) NEWdefault specPLess3-lowpt

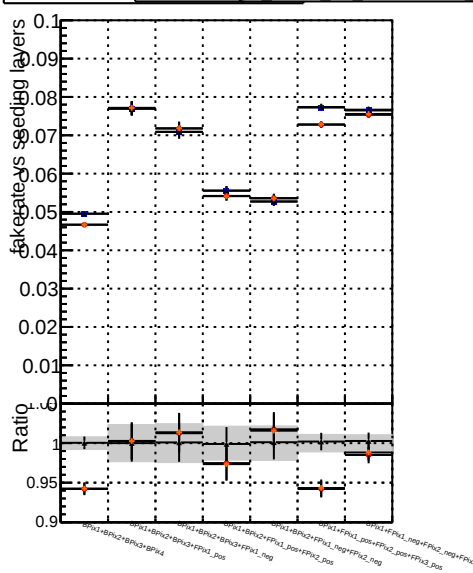


Figure 10 consists of two plots showing the ratio of pileup rates for different pileup models. The top plot shows the ratio of pileup rates vs. pileup layers for models with 100 layers. The bottom plot shows the ratio of pileup rates vs. pileup layers for models with 10 layers. Both plots show ratios for various models, with the top plot ratios generally higher than the bottom plot ratios.

Top Plot: Ratio of pileup rates vs. pileup layers (100 layers)

Model	Ratio
BPu1+BPu2+BPu3+BPu4	~0.87
BPu1+BPu2+BPu3+BPu4+BPu5	~0.86
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6	~0.87
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16+BPu17	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16+BPu17+BPu18	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16+BPu17+BPu18+BPu19	~0.88
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16+BPu17+BPu18+BPu19+BPu20	~0.88

Bottom Plot: Ratio of pileup rates vs. pileup layers (10 layers)

Model	Ratio
BPu1+BPu2+BPu3+BPu4	~1.01
BPu1+BPu2+BPu3+BPu4+BPu5	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16+BPu17	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16+BPu17+BPu18	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16+BPu17+BPu18+BPu19	~1.00
BPu1+BPu2+BPu3+BPu4+BPu5+BPu6+BPu7+BPu8+BPu9+BPu10+BPu11+BPu12+BPu13+BPu14+BPu15+BPu16+BPu17+BPu18+BPu19+BPu20	~1.00