

New cuts for signal selections

LAKHNO GLEB
TSNUK, UKRAINE

Old & new signal selections:

$$S(t) = A \frac{t-t_0}{\tau} e^{-\frac{t-t_0}{\tau}} \theta(t - t_0)$$

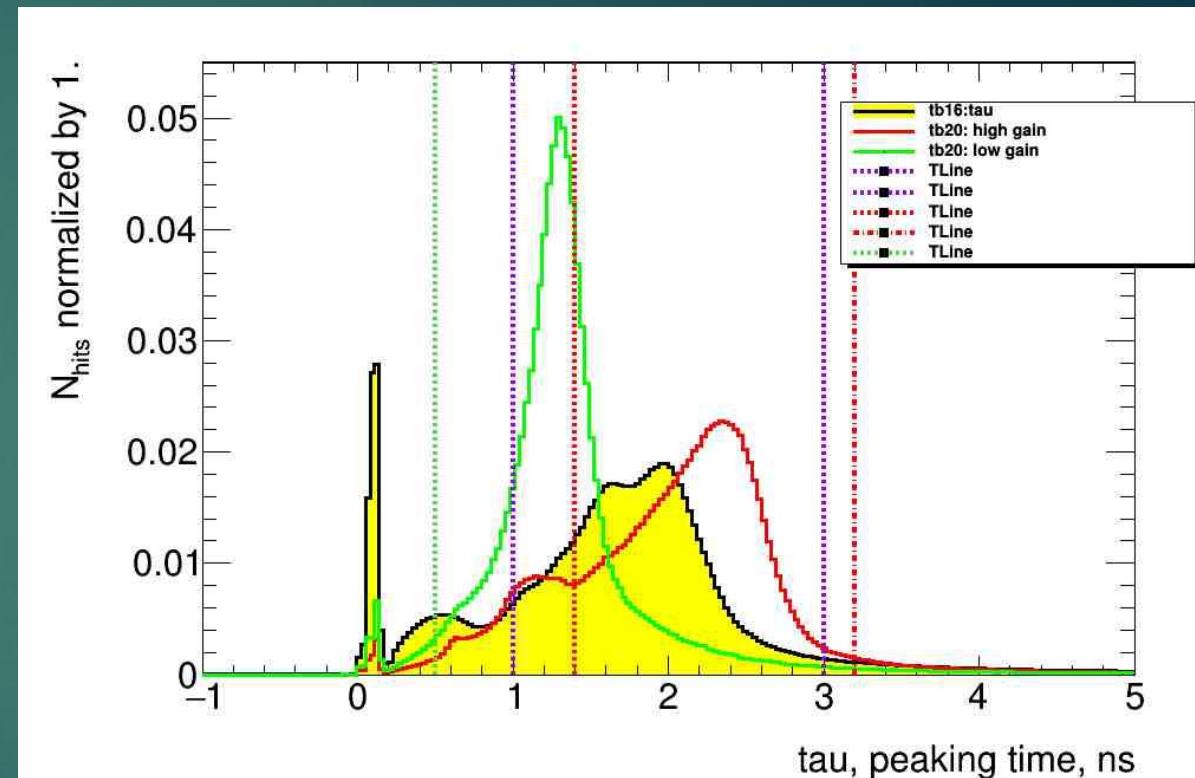
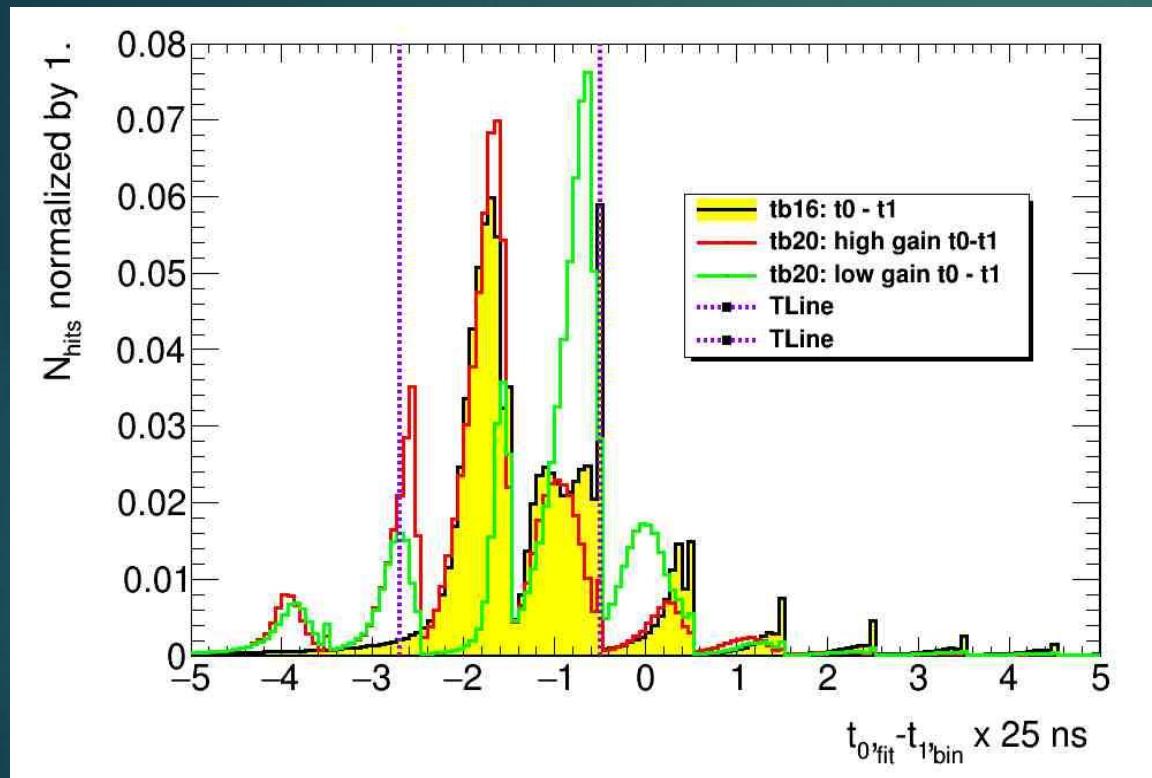
Signal selection(for TB2016):

1. $1 < \tau_{fit} < 3$
2. $S_{max} < 2000$ ADC
3. $t_{1,bin} - 2,7 < t_{0,fit} < t_{1,bin} - 0,5$
4. $NN_{output} > 0,5$

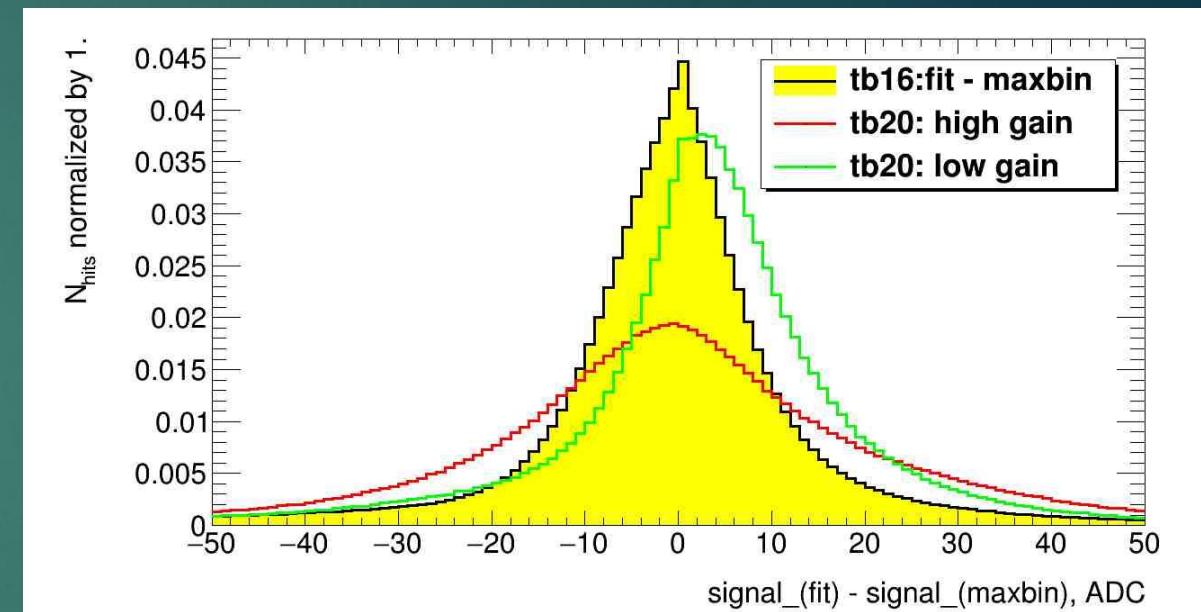
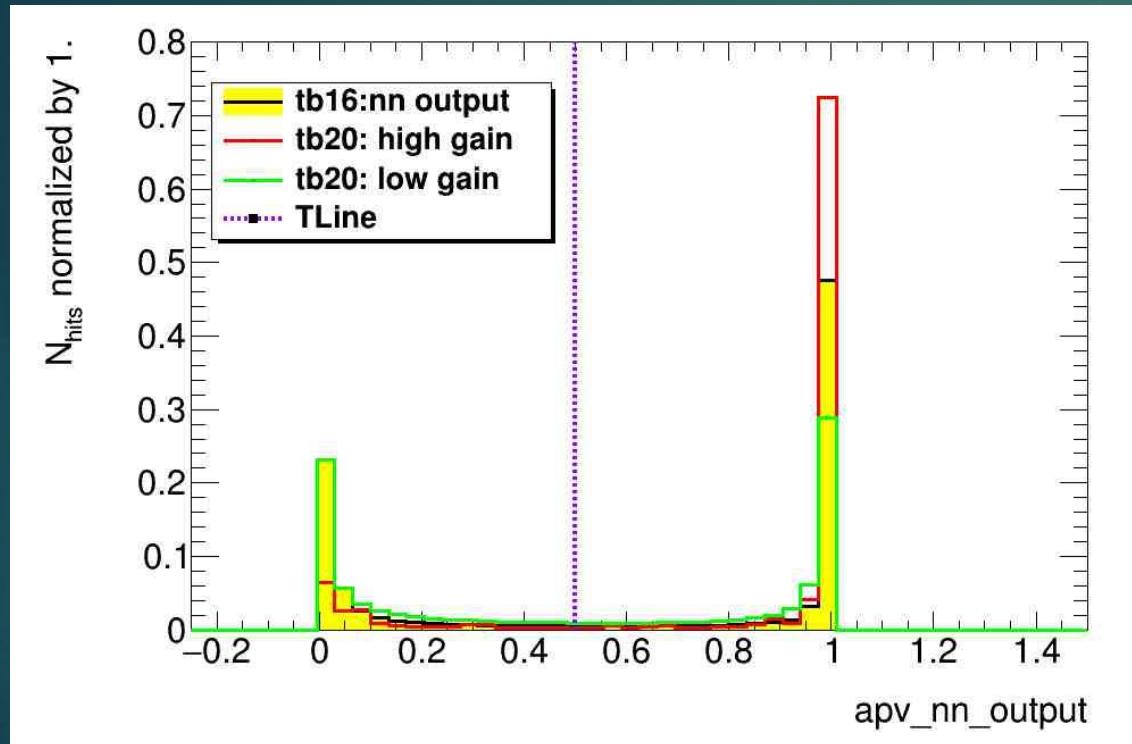
For TB2020:

1. $1,4 < \tau_{fit} < 3,2$ – high gain
 $0,5 < \tau_{fit} < 3,2$ – low gain
2. $S_{max} < 2000$ ADC
3. $t_{1,bin} - 3,2 < t_{0,fit} < t_{1,bin} - 0,5$ – high gain
 $t_{1,bin} - 2 < t_{0,fit} < t_{1,bin} - 0,5$ – low gain
4. $NN_{output} > 0,5$

Plots for signal selections

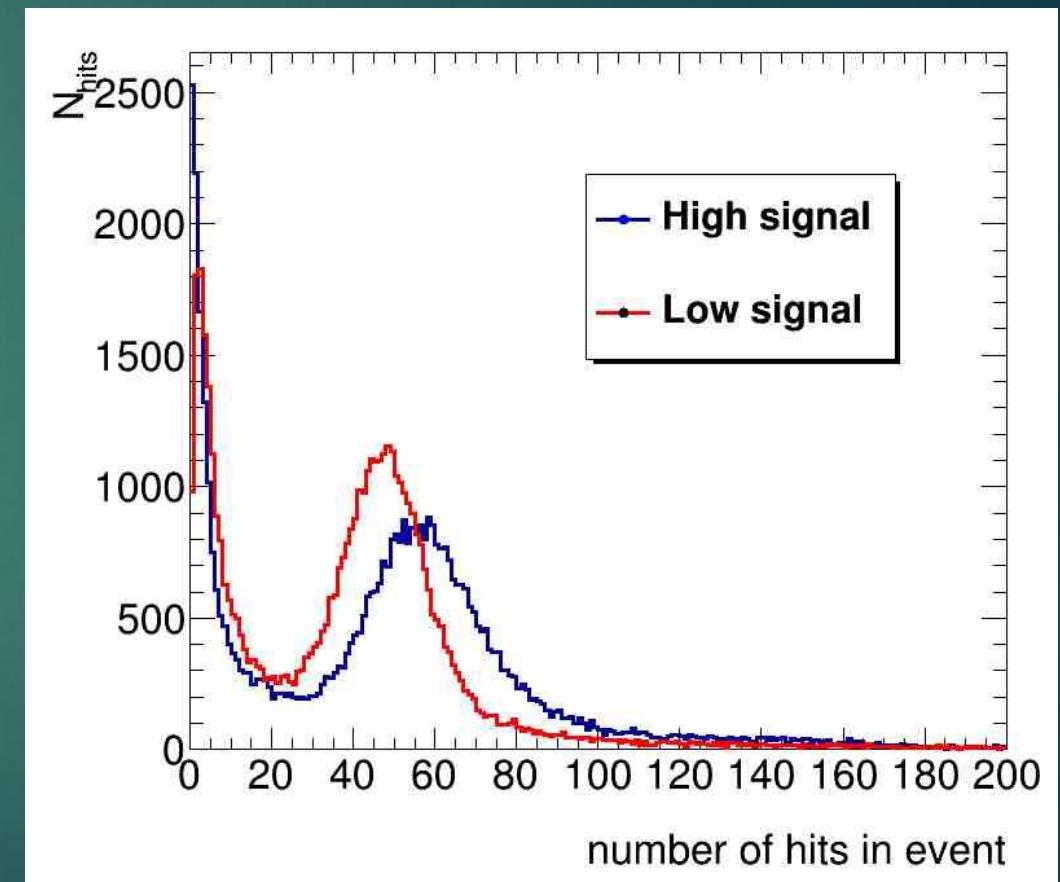
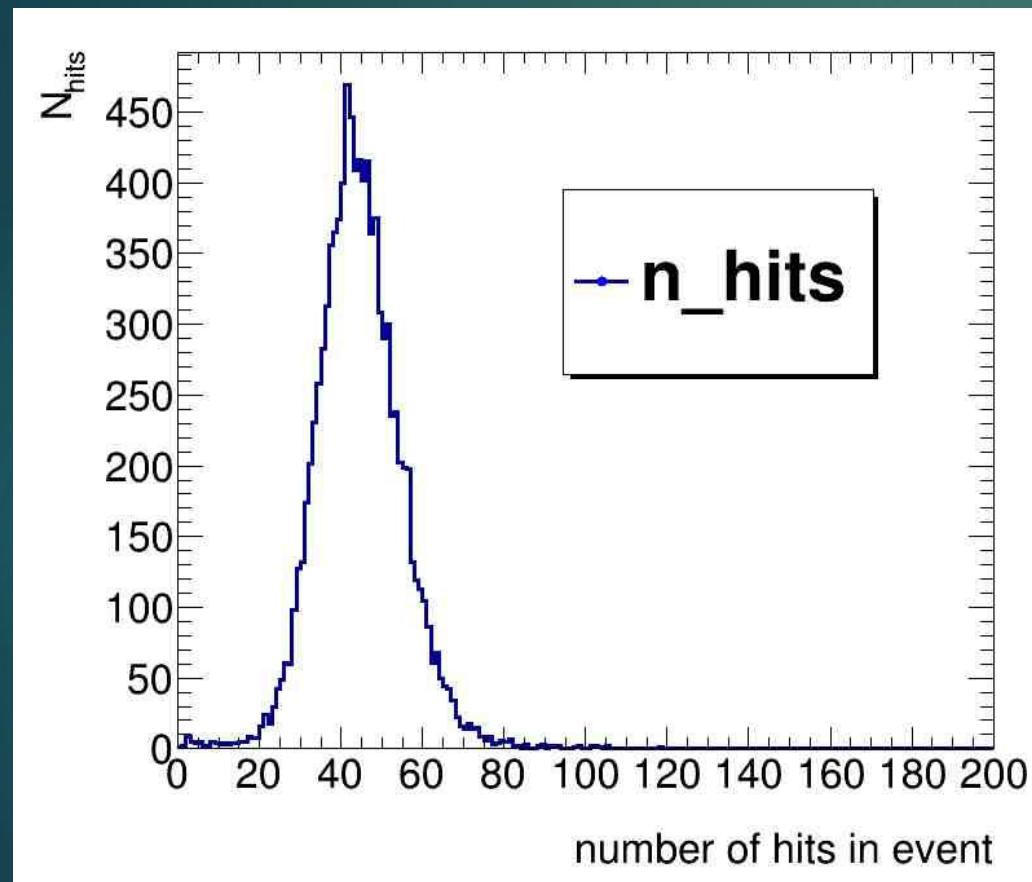


Plots for signal selections



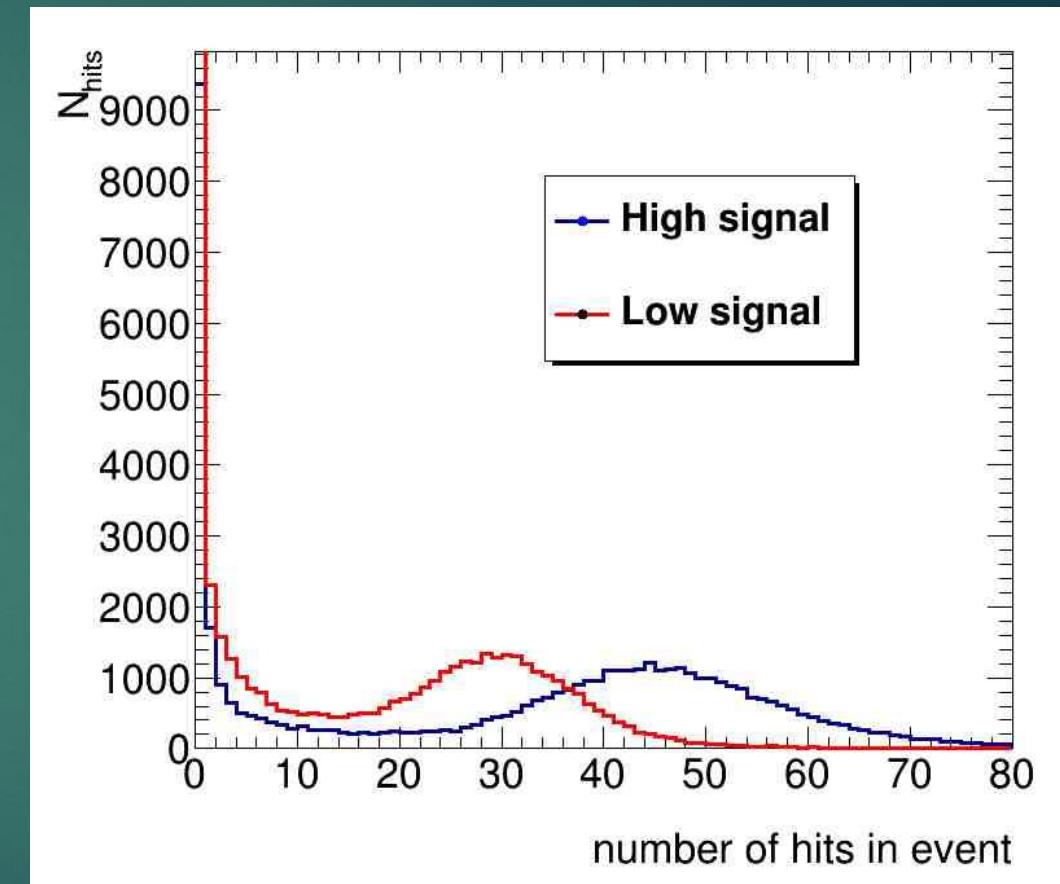
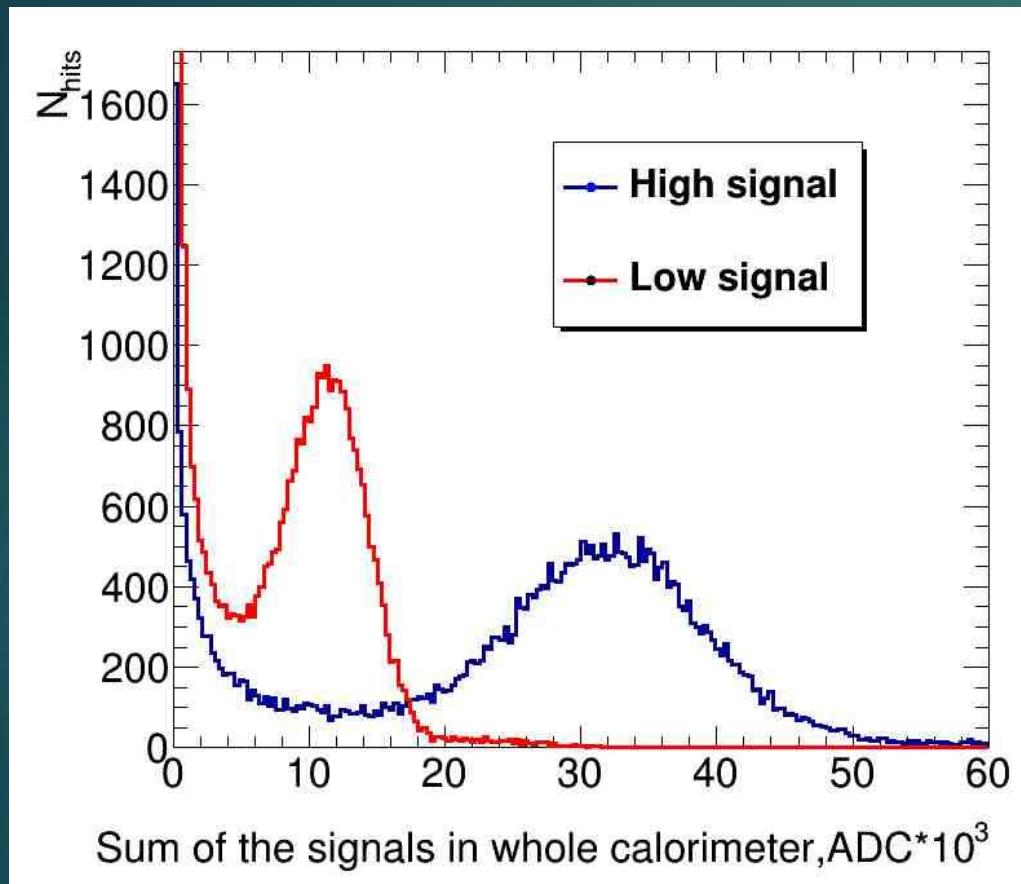
Problems

Hits in event with signal selection



Problems

Hits in event with signal selection



BACKUP

Hits in event without signal selection

