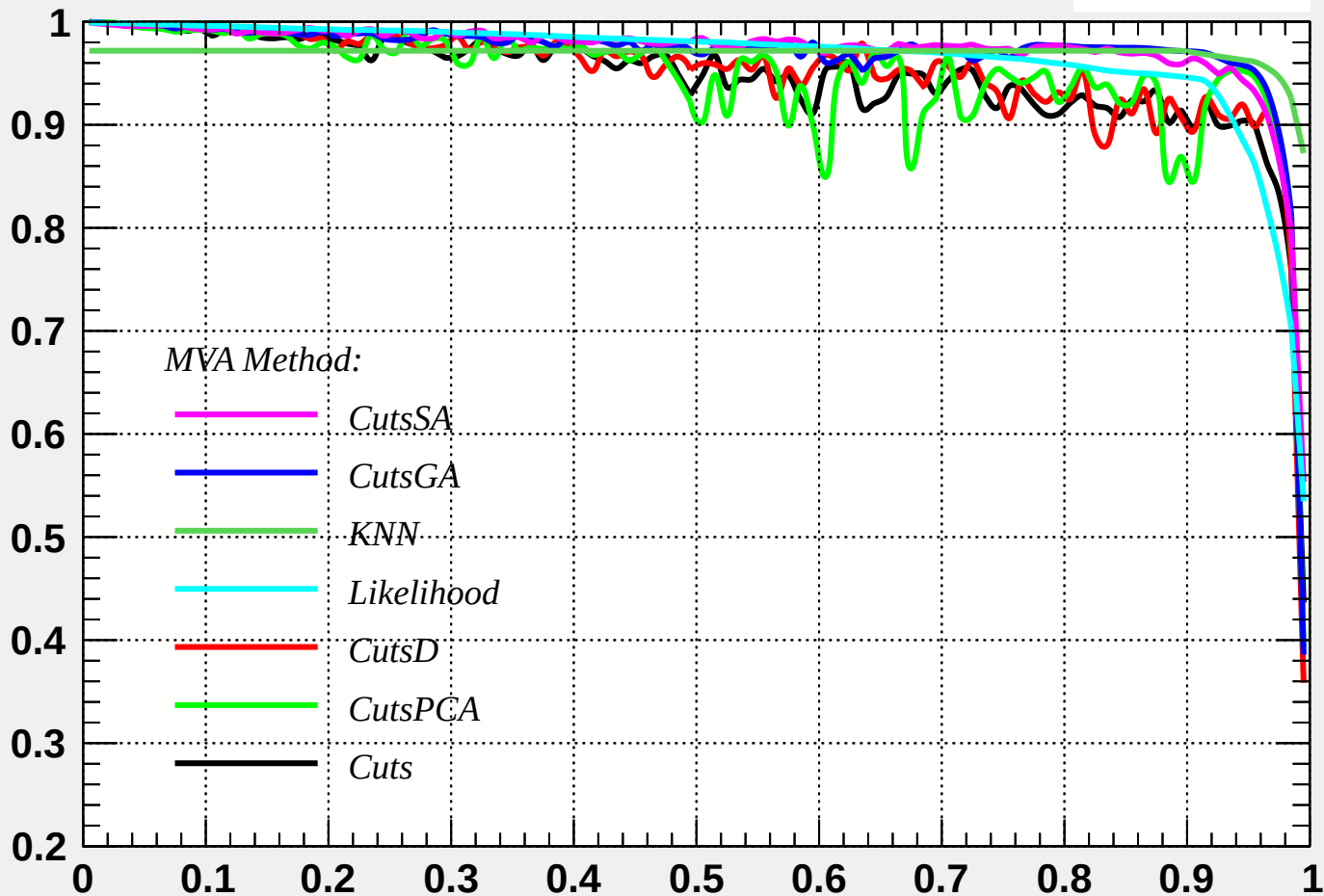


Background rejection versus Signal efficiency

Background rejection



Signal efficiency

Cut efficiencies and optimal cut value

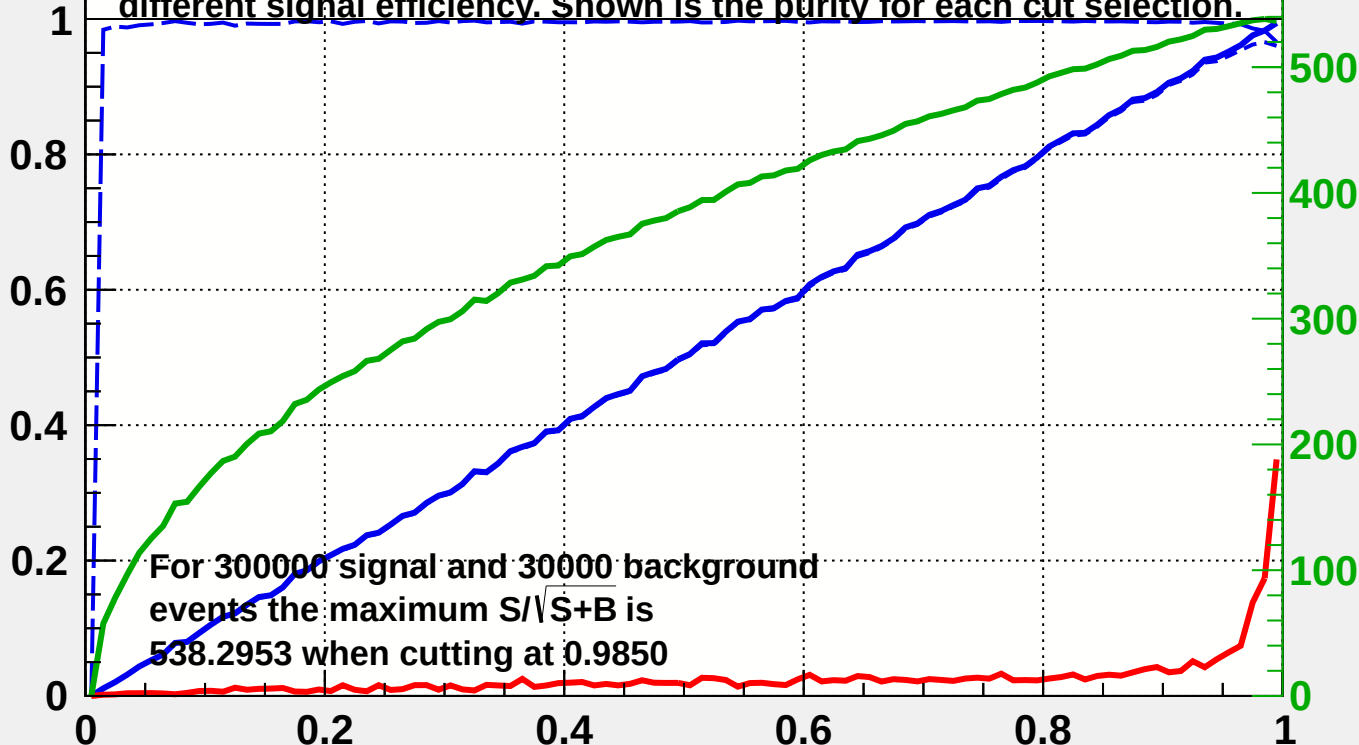
Efficiency (Purity)

— *Signal efficiency*
— *Background efficiency*

— *Signal purity*
- - *Signal efficiency*purity*
— $S/\sqrt{S+B}$

Method Cuts provides a bundle of cut selections, each tuned to a different signal efficiency. Shown is the purity for each cut selection.

Significance



Signal Efficiency

Cut efficiencies and optimal cut value

Efficiency (Purity)

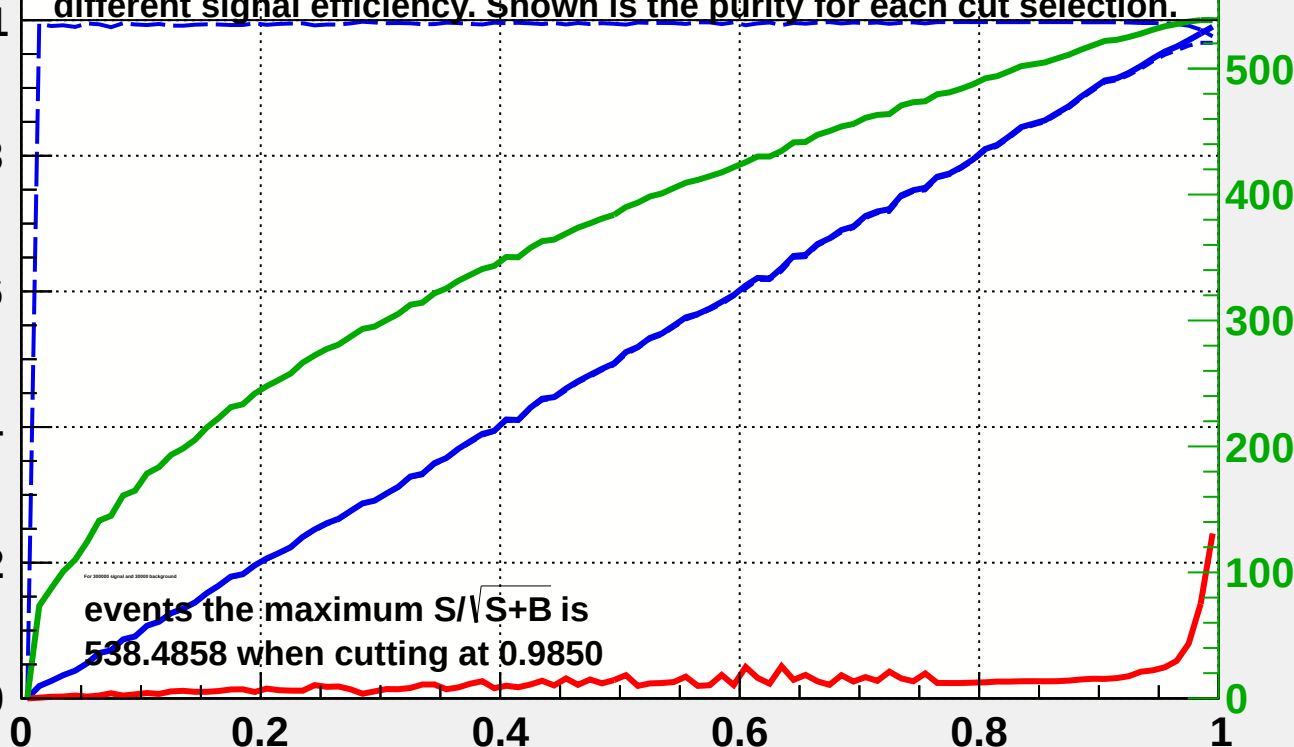
— *Signal efficiency*
— *Background efficiency*

— *Signal purity*
- - *Signal efficiency*purity*
— $S/\sqrt{S+B}$

Method Cuts provides a bundle of cut selections, each tuned to a different signal efficiency. Shown is the purity for each cut selection.

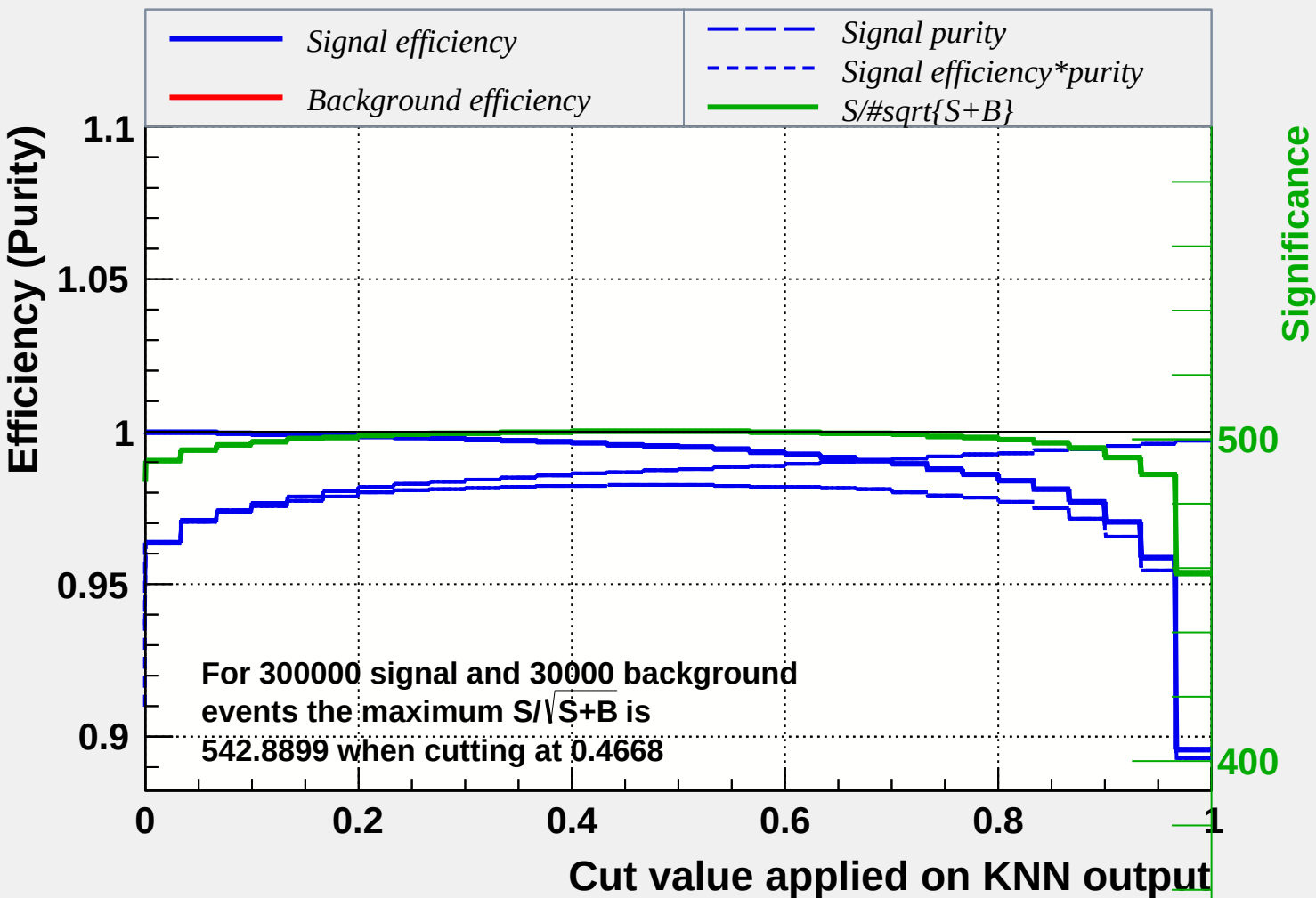
Significance

events the maximum $S/\sqrt{S+B}$ is
538.4858 when cutting at 0.9850



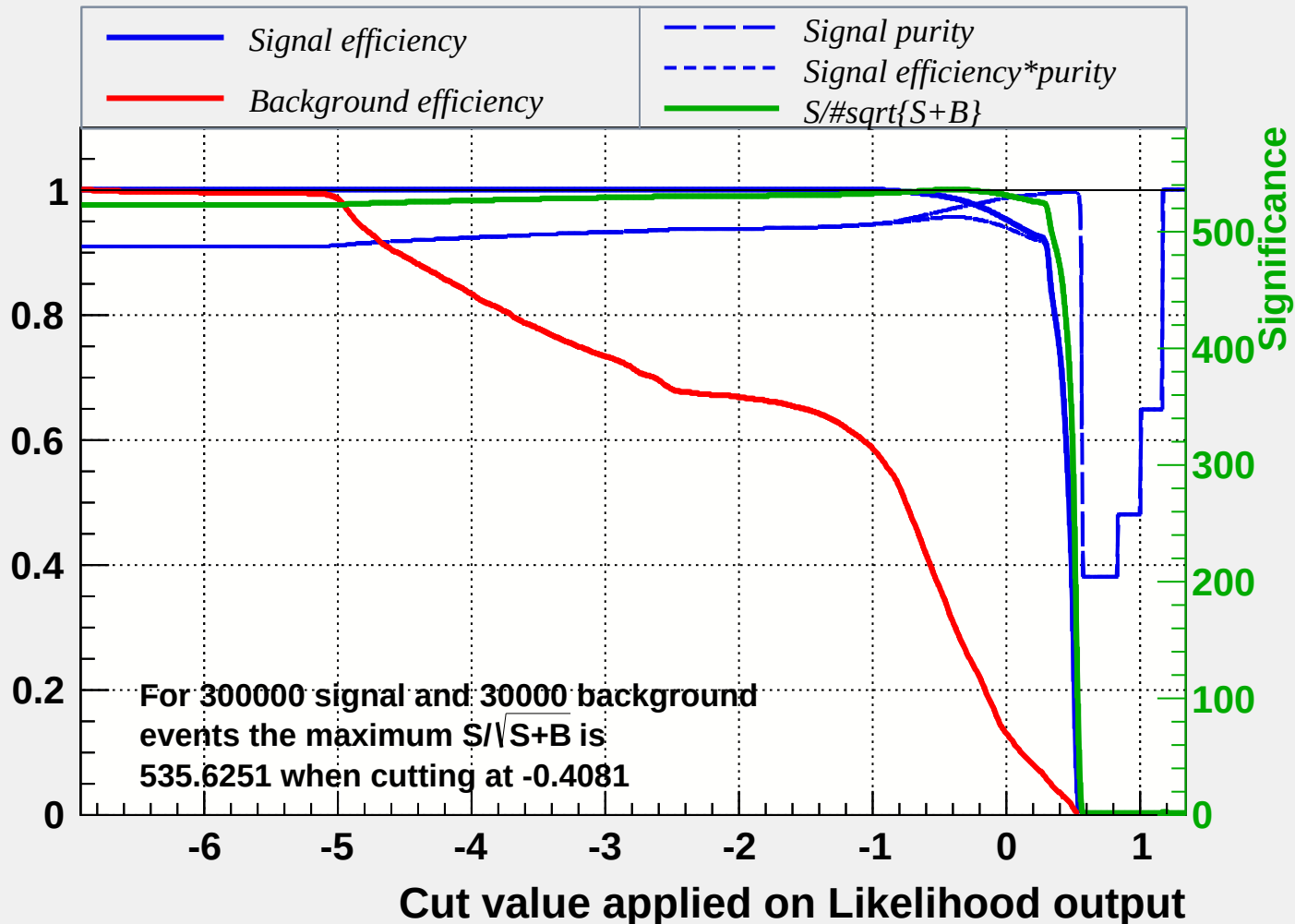
Signal Efficiency

Cut efficiencies and optimal cut value



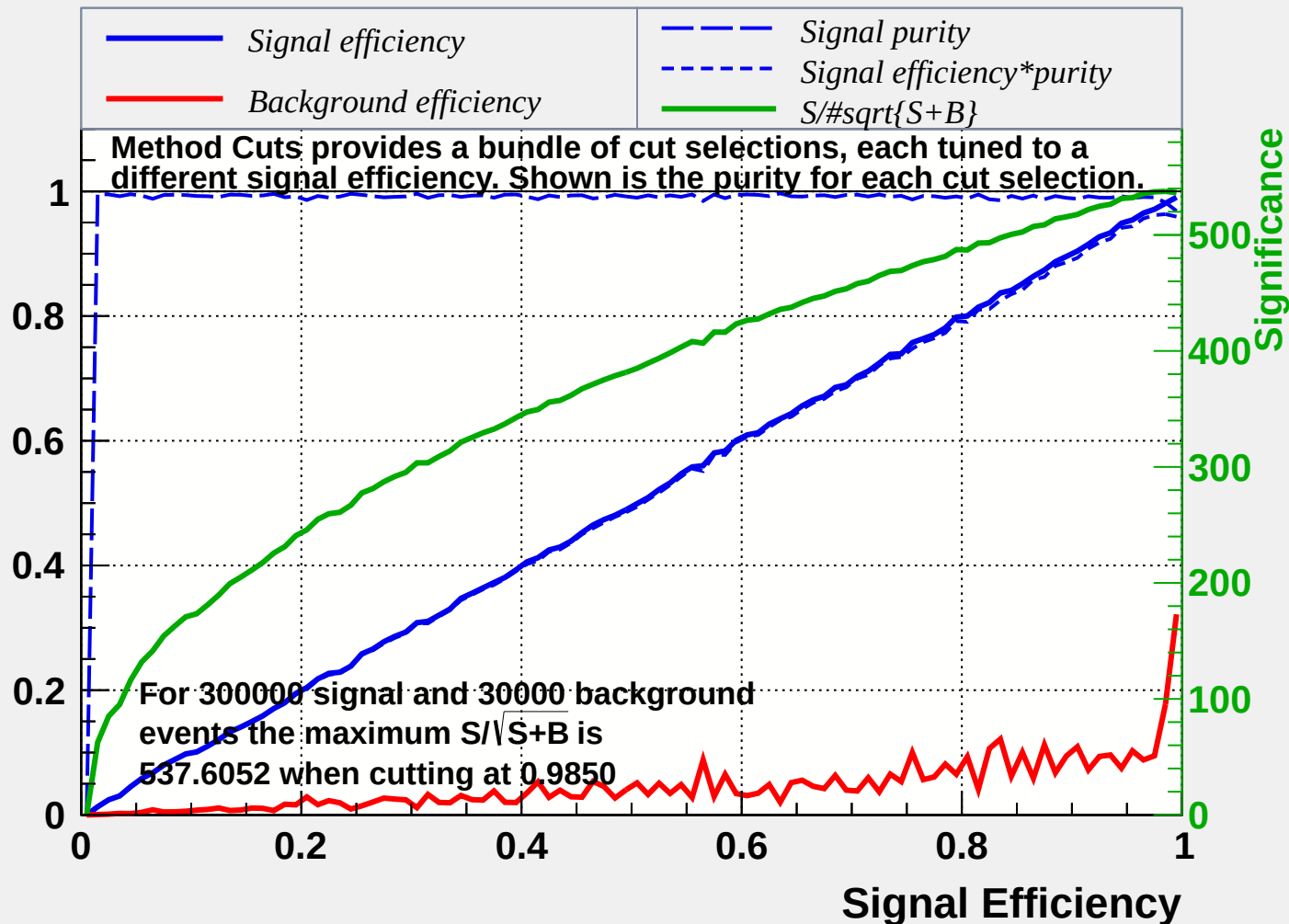
Cut efficiencies and optimal cut value

Efficiency (Purity)



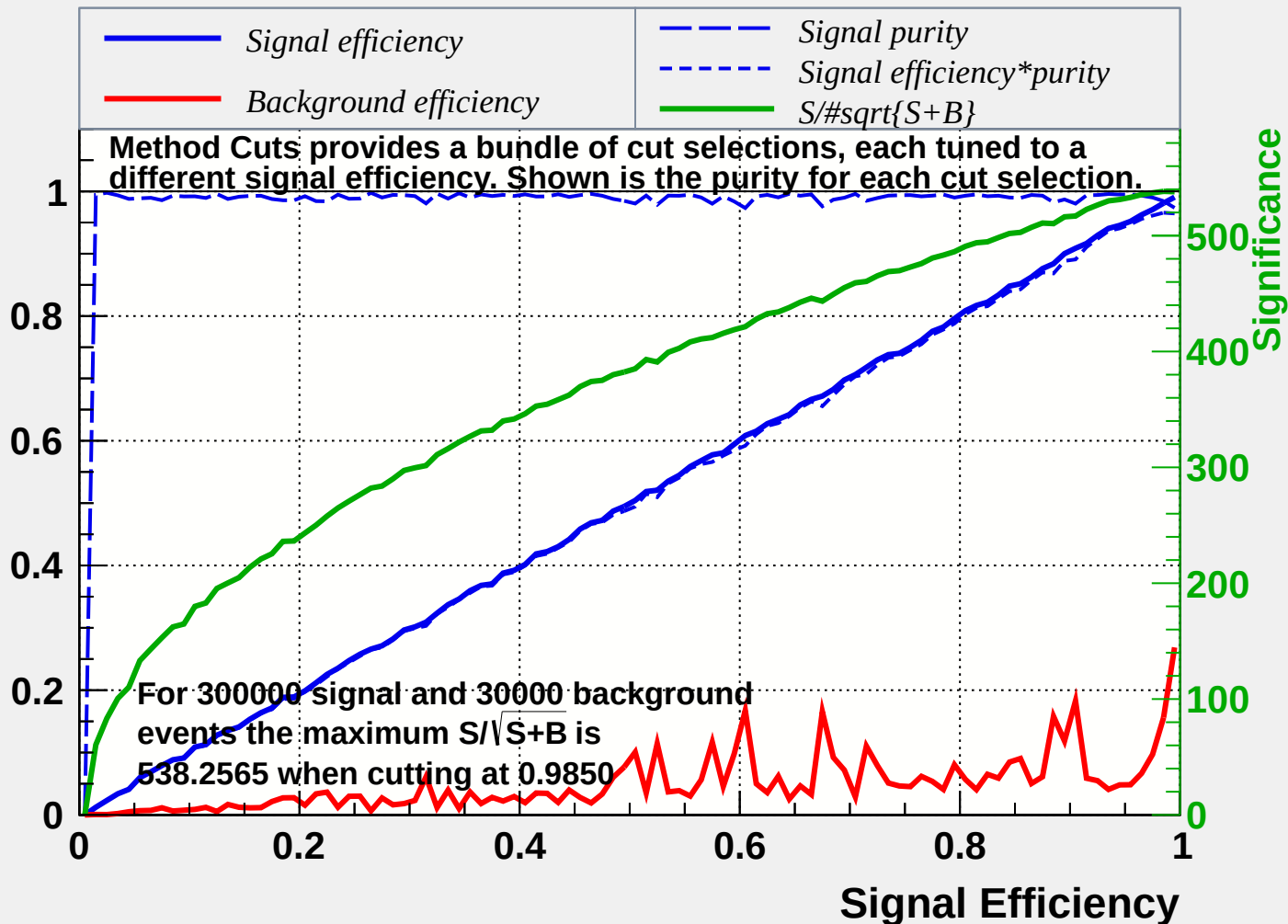
Cut efficiencies and optimal cut value

Efficiency (Purity)



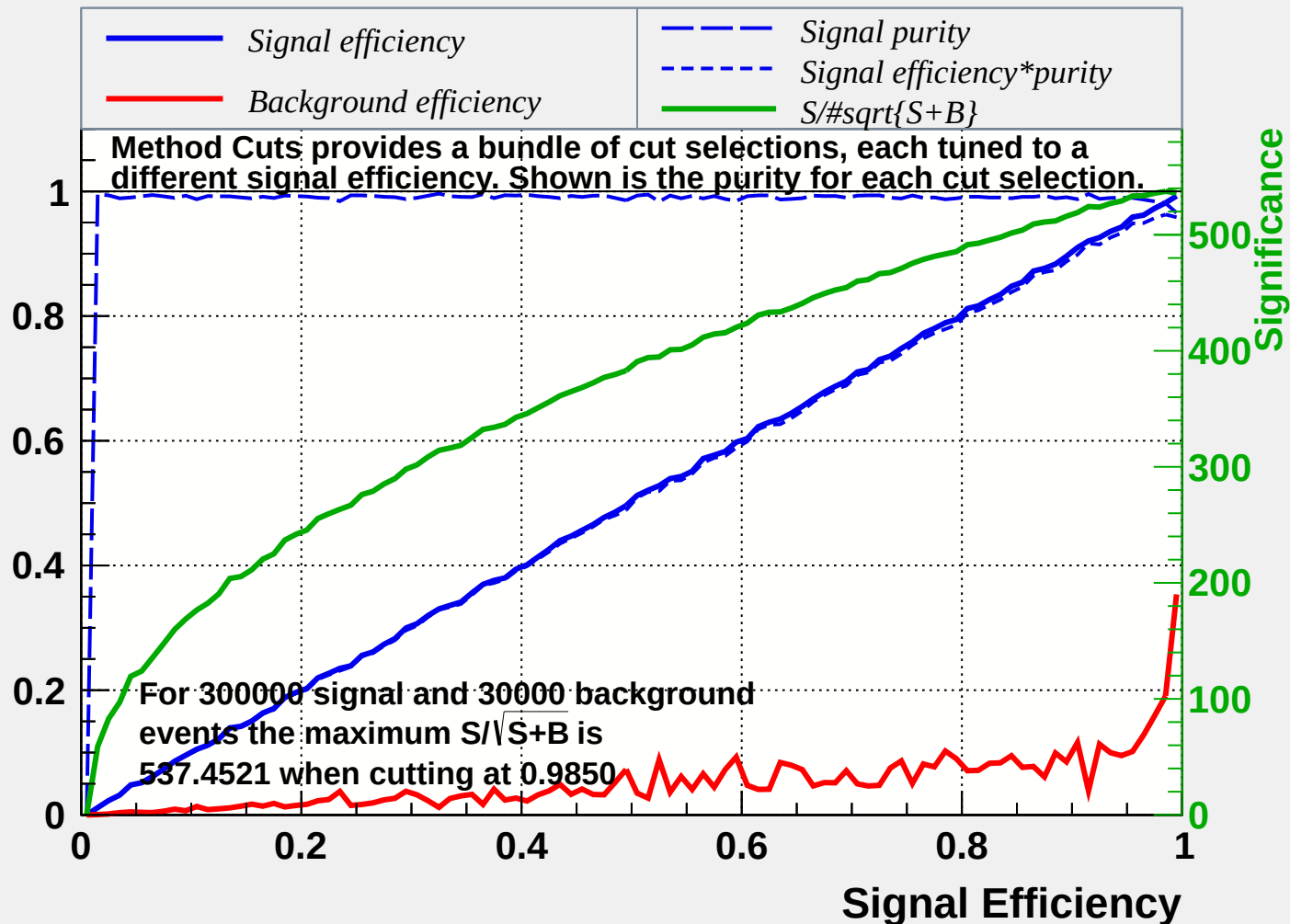
Cut efficiencies and optimal cut value

Efficiency (Purity)

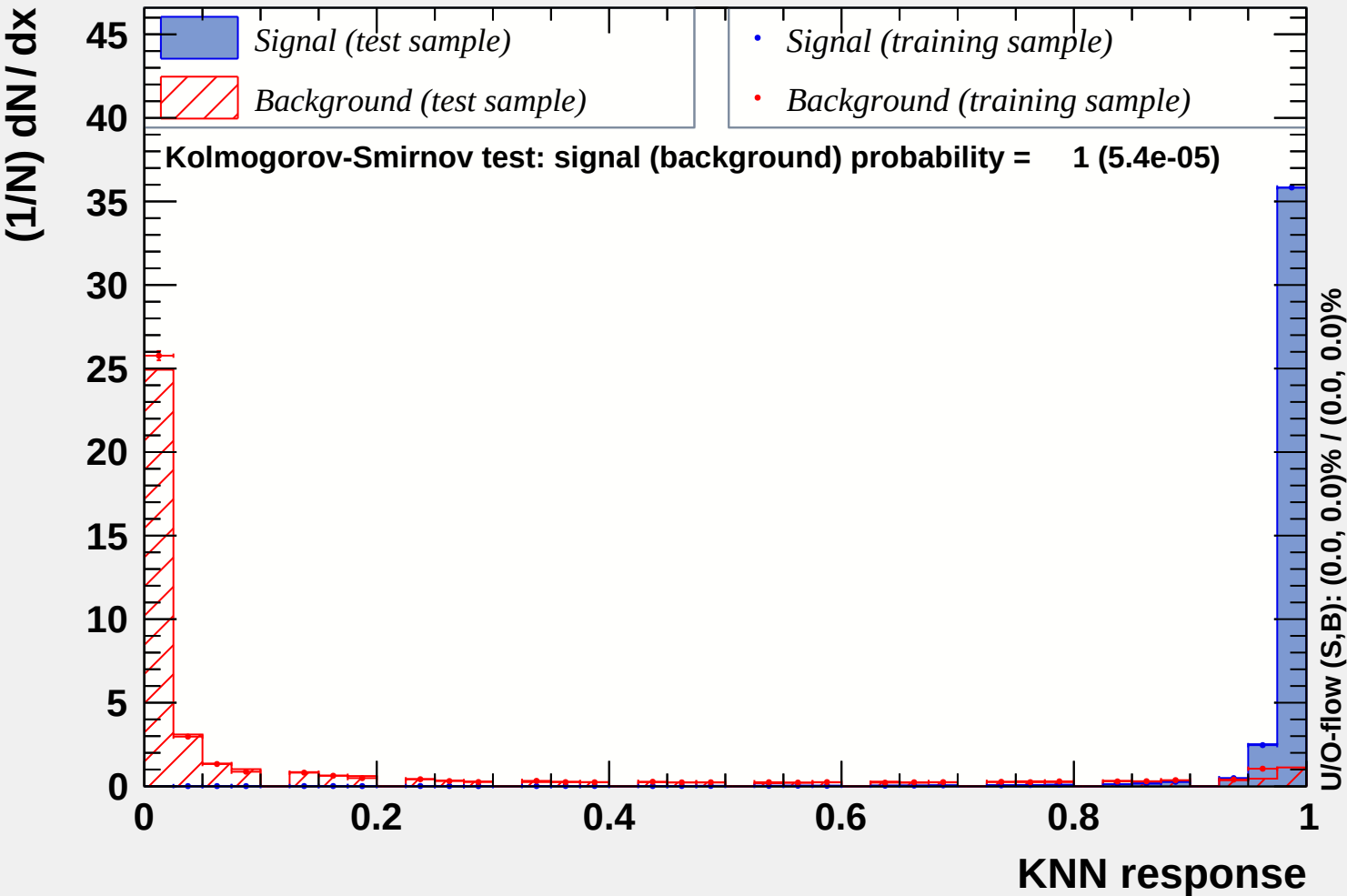


Cut efficiencies and optimal cut value

Efficiency (Purity)



TMVA overtraining check for classifier: KNN



TMVA overtraining check for classifier: Likelihood

