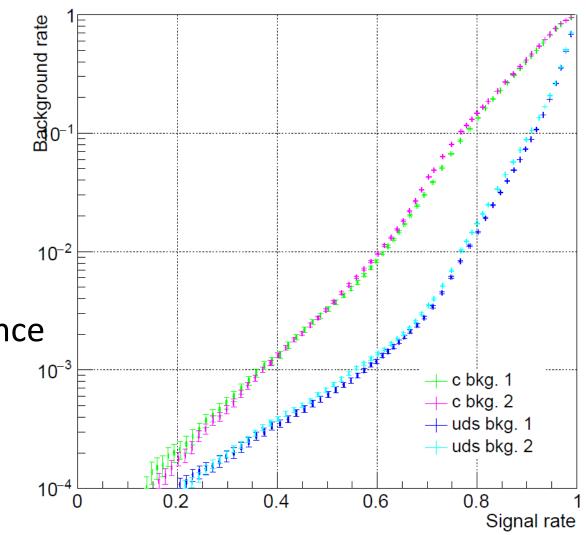
LCFIPlus check5

Masakazu Kurata

Last week

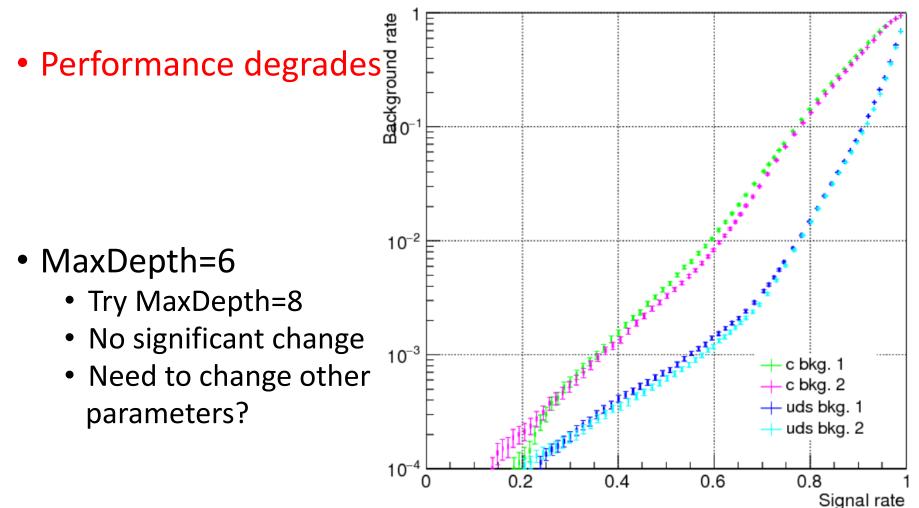
- Change BDT parameters
 - 1: 50k
 - 2: 100k
- Vanished!

 Similar performance to DBD



With background

- Comparison between different amount of data
 - 1: w beam background, 50k
 - 2: w/o, 50k



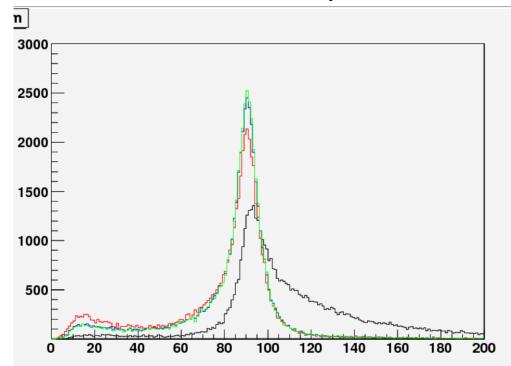
Try to recover performance

•
$$y_{ij} = \frac{\min(E_i^2, E_j^2)(1 - \cos \theta)}{E_{vis}^2}$$
, $y_{beam} = \frac{2E_i^2 \alpha^2 (1 - \cos \theta)}{E_{vis}^2}$

α: beam rejection parameter

smaller \rightarrow beam rejection becomes stronger

• Particle i with y_{ij}>y_{beam} is discarded



vvZ@500GeV

- 2 jet clustering
- Parameters are tuned for better result

w/o beam b.g. rejection Kt Durham Valencia

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Try to recover performance

- Durham beam background rejection on
 - Parameter check
- Performance degrades more
 - Still under investigation
- So,
 - Not yet finished
 - Cannot investigate cause(s)
 - This week busy for Nobel symposium...

