

Each subtractor ideally done by two groups, directories on github

### **Subtractors:**

Where possible, full and also CHS

Include trimming (kt, rsub 0.3, fcut 0.05), apply it also to reference jets

Safearea

SafeNpC

ConstituentSubtractor

SoftKiller

PUPPI

Cleansing

corrJVF

.....

### **Observables:**

pt

mass

angularity/width/girth with  $\alpha = 1$

**Pileup levels 30, 60, 100, 140**

### **Signal samples:**

dijets (pt > 20, pt > 100, pt > 500)

UE off

massless particles

## particles and jet selection:

antikt R=0.4

particles:  $|\eta| < 4$

jets: select 2 hardest  $> 20, 100, 500$  in hard event, and then  $|\eta| < 2.5$ , match to full with  $\Delta R = 0.3$  criterion

## How to compare (quality measures):

offset v. dispersion

number of jets above 20 GeV as a function of npu

File format for results:

# comments

npu <DeltaO> sigma\_DeltaO corr.coeff. #jets>20

Later:

boosted W,  $pt > 500$

R=1 (trimmed mass)

Later, perhaps:

angularity  $\alpha=1$

tau\_32,  $\beta=2$ , 1-pass-kt-axis

tau\_21,  $\beta=1$ , 1-pass-kt-axis,  $m > 40$