

only π^0 , only elastic collisions

SMASH analysis: SMASH-analysis-3.4

Elastic Box:
 $V = 1000.0 \text{ fm}^3$
 $\sigma = 1.0 \text{ fm}^2$
 $N_{\text{test}} = 1$
 $T = 0.200 \text{ GeV}$
 $dt = 0.01 \text{ fm/c}$
 $t_{\text{tot}} = 55.0 \text{ fm/c}$
 $N_{\text{ev}} = 100$

covariant criterion

geometric criterion

stochastic criterion

$$\frac{N_{\text{coll}}^{\text{SMASH}}}{N_{\text{coll}}^{\text{theory}}} = \frac{1}{N N_{\text{test}}/2} \frac{N_{\text{coll}}}{N_{\text{ev}} t_{\text{tot}}} \frac{V}{\sigma N \langle v \rangle}$$

$N_{\text{coll}}^{\text{SMASH}} / N_{\text{coll}}^{\text{theory}}$

0 50 100 150 200 250 300 350 400

0 50 100 150 200 250 300 350 400

0 50 100 150 200 250 300 350 400

Particle number, N