\[ \frac{\langle dN \rangle}{\langle d\eta \rangle} \]

- For pp, Pb–Pb: \(|y| < 0.5\)
- For p–Pb: \(-1 < |y| < 0\)

CSM, \(T_{\text{chem}} = 155\) MeV, \(V_c = 1.6\) dV/dy
CSM, \(T_{\text{ann}} = T(\langle dN_{\text{ch}} / d\eta \rangle), V_c = 1.6\) dV/dy
Saha eq. with annihilations

Coalescence

\(\langle dN_{\text{ch}} / d\eta \rangle\) for various collision systems at different energies:
- ALICE
  - pp, \(\sqrt{s} = 5.02\) TeV
  - pp, \(\sqrt{s} = 8.16\) TeV
  - pp, \(\sqrt{s} = 5.44\) TeV
  - p–Pb, \(\sqrt{s_{\text{NN}}} = 7\) TeV
  - p–Pb, \(\sqrt{s_{\text{NN}}} = 13\) TeV
  - Pb–Pb, \(\sqrt{s_{\text{NN}}} = 5.02\) TeV
  - Pb–Pb, \(\sqrt{s_{\text{NN}}} = 2.76\) TeV
  - pp, \(\sqrt{s} = 13\) TeV, high mult.

\(T = \frac{\text{ann}}{\text{CSM}}\)

\(y/dV = 1.6\) dV/c,
\(T = \frac{\text{chem}}{\text{CSM}}, \text{Saha eq. with annihilations}\)