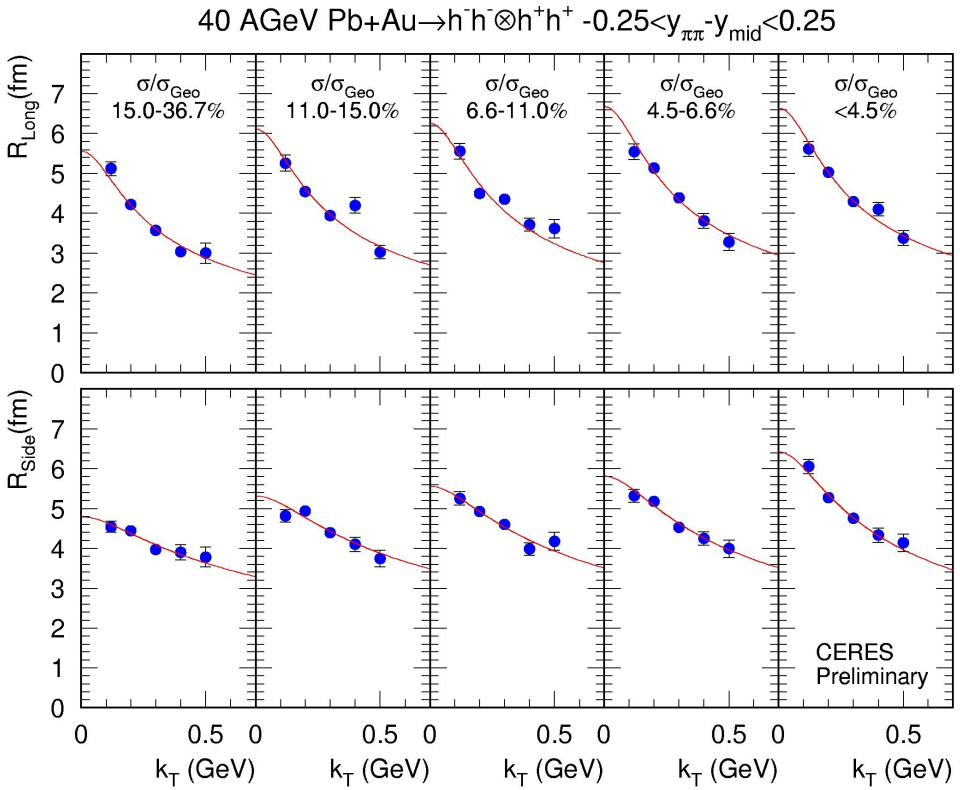
Pion HBT-interferometery

$$C_2=\lambda\cdot\exp(-q^2_{long}R^2_{long}-q^2_{side}R^2_{side}-q^2_{out}R^2_{out}-2q_{out}q_{long}R^2_{outlong})$$



Longitudinal boost-invariant expansion:

$$R_{long}=\tau_0\sqrt{T_f/m_T}$$

τ_0=6-7 fm/c for T_f=120 MeV

Radial flow:

$$R^2_{side}=R^2_{geo}/(1+\eta^2_f m_T/T_f)$$

$$\langle\beta_t\rangle = 0.57\ ^{+0.06}_{-0.09}$$