



Contribution ID: 4

Type: **not specified**

## Multiple freezeout

*Friday 17 January 2014 14:40 (15 minutes)*

We argue that known systematics of hadron cross sections may cause different particles to freeze out of the fireball produced in heavy-ion collisions at different times. We find that a simple model with two freezeout points is a better description of data than that with a single freezeout, while still remaining predictive. The resulting fits seem to present constraints on the late stage evolution of the fireball, including the tantalizing possibility that the QCD chiral transition influences the yields at  $\sqrt{s}=2700$  GeV and the QCD critical point those at  $\sqrt{s}=17.3$  GeV.

**Authors:** GODBOLE, Rohini (Centre for Theoretical Studies (CTS)); CHATTERJEE, Sandeep (Indian Institute of Science); GUPTA, Sourendu (TIFR)

**Presenter:** CHATTERJEE, Sandeep (Indian Institute of Science)