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Multiple Freezeout in Heavy Ion Collisions

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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 on hadron yields 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. We also study the implication of such a freezeout scenario on the susceptibilities of the conserved charges and the thermal production of light nuclei and antinuclei.

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