

HADRONIZATION OF SUPERCOOLED QGP  
IN ULTRA-RELATIVISTIC HEAVY  
ION COLLISIONS

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S u m m a r y

The important role of two-particle correlation measurements in modern ultra-relativistic heavy ion collisions is discussed as well as the latest results from RHIC and SPS. Possible hadronization of supercooled QGP created in such reactions is studied within the Bjorken hydrodynamic model. Such a hadronization should be a very fast shock-like process, which, hadronization coincides or is shortly followed by freeze-out, could explain a part of the HBT puzzle, i.e., the flash-like particle emission. HBT data also show that the total expansion time before freeze-out is very short ( $\sim 6 - 10$  fm/c). Here, we discuss the question of supercooled QGP and the timescales of the reaction.