

**The Particle multiplicity and fire ball size measurement from PHOBOS
experiment at Relativistic Heavy Ion Collider, BNL**

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In 1956, the interference of EM waves to measure the angular size of Sirius was proposed by Hanbury Brown and Twiss. From then on, this method is widely adapted by experimental particle physicist. In this presentation, the size of fire balls created by gold-gold head-on collisions are measured using HBT method by PHOBOS experiment at Relativistic Heavy Ion Collider (RHIC).