Study of Quark gluon plasma by high energy nuclear collider

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ALICE collaboration

Quark-gluon plasma, which is extremely hot matter and not naturally exist on Earth is created accelerating nuclear such as Au and Pb by large colliders at Brookhaven National Lab in U.S.A. and at CERN in Suisse. It is believed that QGP is the state which exist soon after the Big Bang in birth process of Universe. I am a member of international collaborations (ALICE, PHENIX) which study the property of QGP using a combination of several detectors to detect the particles emitted from QGP. My main interests are the strength of the flow and energy loss in QGP by which I study the QGP property and the boundary condition between QGP and hadron phase.

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