

PHYSICS AND ASTRONOMY COLLOQUIUM

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The properties of strongly interacting matter

In this talk I will discuss some of the properties of strongly interacting matter at temperatures in excess of several trillion Kelvin.

Experiments colliding heavy nuclei at the Relativistic Heavy Ion Collider Brookhaven (RHIC) and at the Large Hadron Collider at CERN have revealed that the plasma of quark and gluons created in these collision behaves like a very good fluid. I will try to put this observation in context with ordinary substances and will discuss to which extent this quark-gluon fluid is special.

I will further discuss recent efforts to study the properties of strongly interacting matter at finite density and the search for a possible critical point of the QCD phase diagram.



THURSDAY, APRIL 18, 2013 | 4:00 PM | HAWKING AUDITORIUM



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