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A quark–gluon plasma (QGP) or quark soup is a state of matter in quantum chromodynamics (QCD) which exists at extremely high temperature and/or density. Das Quark-Gluon-Plasma (Abkürzung QGP) ist ein Zustand der Materie bei extrem hohen Temperaturen oder Baryon-Dichten. Hier ist das Confinement (englisch Eingesperrtsein) der Quarks und Gluonen aufgehoben, weshalb diese Teilchen ein quasi-freies Verhalten zeigen. A proton is composed of two up quarks, one down quark, and the gluons that mediate the forces "binding" them together. The color assignment of individual quarks is arbitrary, but all three colors must be present. At Brookhaven's Relativistic Heavy Ion Collider, physicists study what the universe may have looked like in the first few moments after its creation. RHIC, physics, accelerator, big bang, quark gluon plasma, QGP, Quark Gluon Plasma 3.

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