

hadrons and quark gluon pdf

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. This state is thought to consist of asymptotically free strong-interacting quarks and gluons, which are ordinarily confined by color confinement inside atomic nuclei or other hadrons. This is in analogy with the conventional plasma where ...

Quark-gluon plasma - Wikipedia

A gluon (g) is an elementary particle that acts as the exchange particle (or gauge boson) for the strong force between quarks. It is analogous to the exchange of photons in the electromagnetic force between two charged particles. In layman's terms, they "glue" quarks together, forming hadrons such as protons and neutrons. In technical terms, gluons are vector gauge bosons ...

Gluon - Wikipedia

En physique, les gluons sont les bosons de jauge responsables de l'interaction forte. Les gluons confinent les quarks ensemble en les liant très fortement. Ils permettent ainsi l'existence des protons et des neutrons, ainsi que des autres hadrons et donc de l'univers que nous connaissons.

Gluon - Wikipedia

LHCb, the world's first dedicated b-physics experiment at a hadron collider, is not only producing world-leading results in heavy flavour physics, but it is obtaining important results also in other fields thanks to its excellent detector performances and unique large-rapidity acceptance that make it a general purpose detector in the forward region.

LHCb - Large Hadron Collider beauty experiment

Propriétés. Comme tous les quarks, le quark up est un fermion. Il s'agit d'un quark de 1^{re} génération possédant une charge électrique de $\frac{2}{3}e$, le quark le plus léger avec une masse comprise entre 1,5 et 3 MeV. c^{-2} . Selon le modèle standard, il forme avec le quark down les nucléons ; le proton contient un quark down et deux quarks up, tandis que le neutron contient deux quarks down et ...

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