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sQGP - A theorist's point of view¹ SANGYON JEON, McGill University

By now, there is not any doubt that the relativistic heavy ion colliders - RHIC and LHC - have created the long-sought Quark-Gluon Plasma (QGP). This new state of matter presents us many surprises. The most surprising one may be the fact that despite the deconfinement, quarks and gluons inside QGP seem to interact very strongly. In this talk, I will try to cover experimental facts such as minimal shear viscosity and strong jet quenching that points to sQGP (strongly interacting QGP), and how theories and models based on many-body QCD are trying to understand those facts. A particular emphasis will be on the big picture understanding of sQGP and its evolution in heavy ion collisions in connection to many-body QCD.

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