

The next round of RHI collision discoveries awaits you

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The forthcoming AA collisions at the LHC promise to advance our understanding of Flavor, Strong Fields, Confinement, and Hadron Mass. For flavor we recognize QGP at LHC as the only physics system that has in one space-time spot all quark types present. I will look at observables suitable to explore dynamical differences among the heavy c, b, t quarks in the deconfined domain filled with u, d, s thermal plasma. I will explain how a near-missed peripheral collision creates EM fields that rip the vacuum and offer a path to seek the origin of vacuum meta stability that the SM parameters predict. In the already explored Confinement and Hadron mass domains we will seek quantitative understanding of vacuum condensates, and the mass spectrum, learning how to adapt the lattice results to the highly dynamical AA collision environment.

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