A Large Ion Collider Experiment (or ALICE) is one of the 6 collider experiments currently running on the LHC. ALICE is optimized for Pb-Pb collisions and hopes to study the formation of quark-gluon-plasma, a "primordial state of matter" believed to have existed 10 microseconds after the big bang. A potential upgrade to ALICE is a forward electromagnetic calorimeter (FoCal) composed of silicon and tungsten. FoCal will measure photons and neutral mesons as well as quarkonia jets. Here, I will discuss some of the new science that can be addressed by ALICE and FoCal and some of the work that makes it possible.

BY ASHLEY PARKER

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