

## KCETA Colloquium

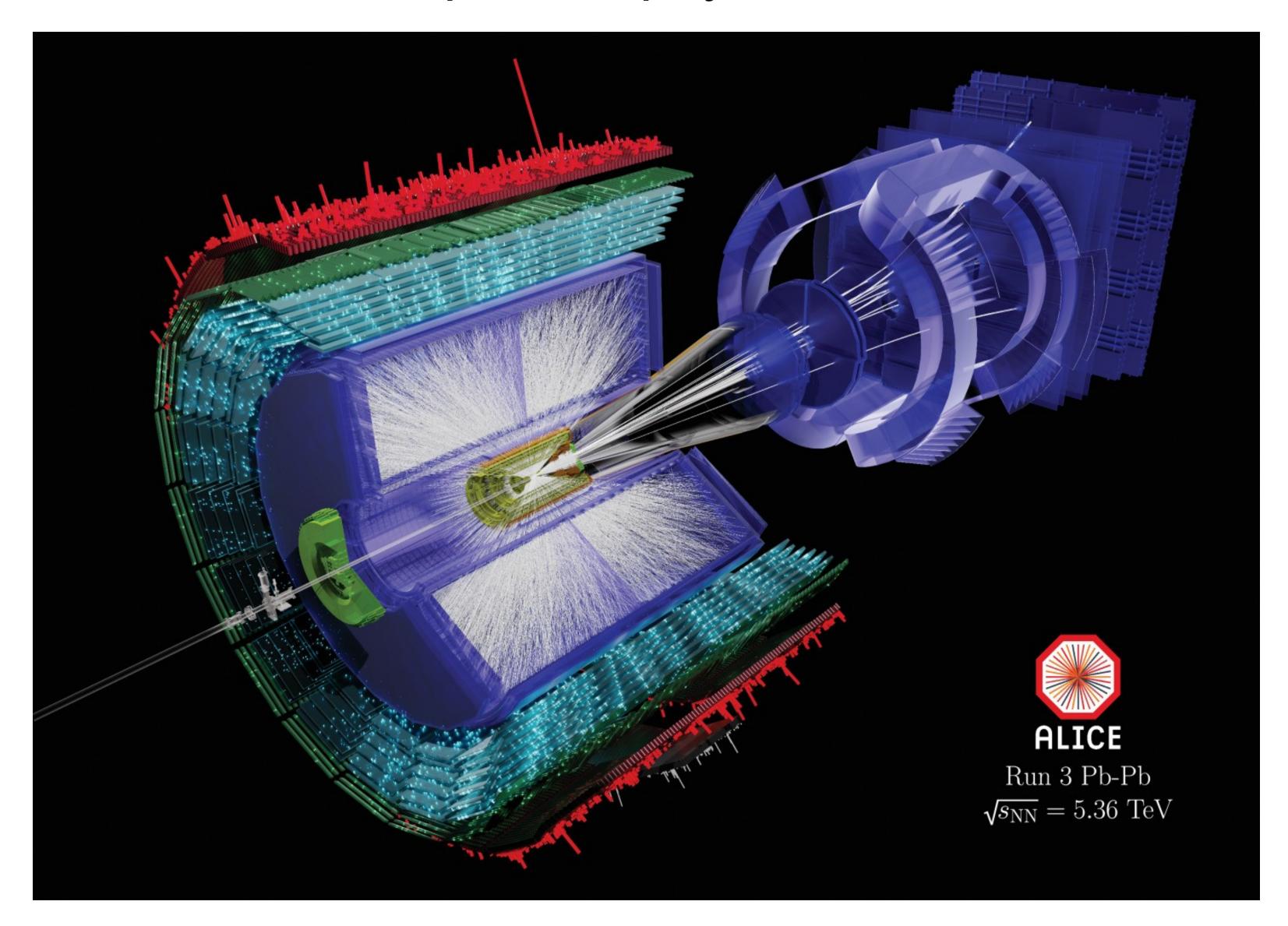
## High Density QCD with Heavy-lon and Proton Beams

## Thursday, December 21, 2023 Kleiner Hörsaal A (CS) 15:45 - 17:00

Dr. Jan Fiete Grosse-Oetringhaus (CERN)

It is more than 35 years ago that the first heavy-ion collisions occurred at CERN and in the meanwhile an exploratory field has grown into a precision era.

The seminar will give a review of studies of the high-density regime of the QCD phase diagram with heavy-ion and proton beams. The nature of the Quark-Gluon Plasma, the onset of its production as well as the transition to hadrons will be discussed. A set of observables will be introduced which allow one to understand the key properties of the Quark-Gluon Plasma. Finally, measurements relevant to astroparticle physics will be discussed.



## Please note: The colloquium will also be live-streamed to B401 SR 410 (CN).

KIT Center Elementary Particle and Astroparticle Physics (KCETA) www.kceta.kit.edu



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