

## Searching for and understanding the quark-gluon plasma in heavy-ion collisions (Block 6)

*Tuesday, 28 July 2020 12:00 (1h 15m)*

Abstract: Lattice-QCD predicts the occurrence of a phase transition above a critical temperature from ordinary nuclear matter to a new state of matter, usually referred to as the quark-gluon plasma (QGP), which is also believed to have existed momentarily after the Big Bang. One primary goal of the heavy-ion physics is to create and study the properties of the QGP. The last couple of decades have seen tremendous progresses in characterizing the QGP properties, thanks to the successful operation of dedicated experiments at the RHIC and the LHC. In this lecture, I will discuss the detectors designed for heavy-ion physics, and how an experimentalist turns electronic signal into physics results.

Recording is available at <https://bluejeans.com/s/xurfWGoB2a5/>

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