THE PHYSICS COLLOQUIUM

Thursday 15 December 2022, 4:00 p.m.
Nijenborgh 4, Lecture Hall 5115.0317 (Schröderzaal)

The Quark Gluon Plasma:
studying primordial matter in the laboratory

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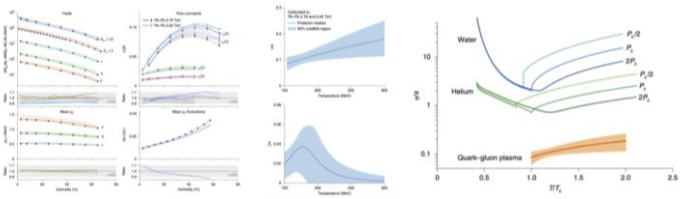
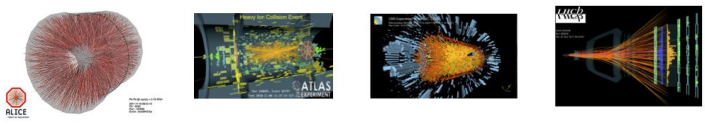
Collisions of heavy-ions accelerated close to the speed of light allow to recreate similar conditions to the ones existed during the first moments of the evolution of the universe, forming the hottest QCD matter on earth. This is known as the quark gluon plasma (QGP).



In this seminar, I will summarise our current understanding about the nature of the system created in such collisions, highlighted by various experimental probes.

I will also discuss the surprises revealed by intriguing results that hint at the possibility of creating the smallest QGP droplet in collisions between protons but also in proton--ion interactions.

I will conclude by reviewing the challenges and the future directions of the field.



Join us for coffee starting 3:30 p.m. Refreshments will be served after the lecture.

For more information contact the host: Julia Even (j.even@rug.nl)
Website: http://www.rug.nl/research/vsi/colloquia/