

amos fazer o primeiro seminário DRCC a distância, com o Zoom.
A data vai ser 8 de abril, 14.00 (devida a diferença de tempo entre Europa e Brasil).
O link do evento é <https://zoom.us/j/630910746>

Subatomic vortices

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The experiment STAR at the Relativistic Heavy Ion Collider at Brookhaven reported in 2017 the evidence of a global polarization of Lambda and anti-Lambda hyperons of the order of a percent in the collisions of nuclei at very high energy at finite impact parameter. This effect - which was predicted on the basis of the formation of the QCD plasma at local thermodynamic equilibrium - is a striking confirmation of the fluid nature of the femtometer-scaled system formed in such collisions and, particularly, of its finite vorticity, estimated to be of the order of 10^{21} sec^{-1} .

In this seminar, I will address the main results, the theoretical framework to deal with spin effects in relativistic fluids, and the possible developments.