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## QCD in a strong magnetic background

*Friday 2 September 2022 08:30 (30 minutes)*

Strong magnetic fields show up in various context in high-energy physics such as heavy-ion collisions, compact stars, and the early universe. Thus it is of interest to understand the behavior of strongly interacting matter in such extreme conditions. In this talk, I will give an overview of some of the progress that has been made over the past decade. In particular, I will discuss the phenomenon of (inverse) magnetic catalysis which is the increase (decrease) of the chiral condensate as the magnetic field increases.

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