

## Magnetic field effect on early universe events

*Friday, 11 September 2020 08:00 (30 minutes)*

An outlook of different aspects of the incidence of magnetic fields on early universe events is presented. The events we will focus on include inflation and the electroweak phase transition. The guideline of the study is mainly the effect of the magnetic field on the effective potential of phase transitions and the decay process of the field leading the phase transition to other fields. We will consider both weak and strong magnetic field approximations, since this issue seems to make some important differences in the results. Besides presenting the results of our working group, we will also discuss other works that can be found in the literature.

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