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## Chiral phase transition in peripheral heavy-ion collisions

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### Abstract content

It is been recently realized that in peripheral heavy-ion collisions, a sizable magnetic field is produced in the interaction region. Although this field becomes weak at the proper times when the chiral phase transition is believed to occur, it is still significant so as to ask whether it influences such transition. In this talk, we use the linear sigma model to study the chiral phase transition in the presence of weak magnetic fields.

### Summary

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