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Thermo-magnetic Corrections to π - π Scattering Lengths in the frame of the Linear Sigma Model

Friday 14 June 2019 10:05 (25 minutes)

We discuss how magnetic fields and temperature affect the behavior of π - π scattering lengths in the linear sigma model. These are interesting parameters in the context of the physics of relativistic heavy ion collisions. We extend previous results where only magnetic effects were taken into account. Although the effects are comparatively small, it is interesting to remark that magnetic field and temperature display opposite effects over the scattering lengths.

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Session Classification: Friday morn.