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Type: Talk

On duality between quantum statistical and field-theoretic approaches

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Motivated by the phenomenology of the heavy-ion collisions, we consider various processes in rotating and accelerated chiral media in equilibrium. There are two dual approaches to address the issues: field theory on a curved background and statistical approach in flat space, with the density operator taking on the most general form. On a few examples, we demonstrate the duality in case of quantum particles of spins $s = 0, 1/2, 1$. In case of higher spins we encounter difficulties which seem to suggest breaking of the duality. Some phenomenological consequences are indicated.

Is this abstract from experiment?

No

Internet talk

Yes

Name of experiment and experimental site

N/A

Is the speaker for that presentation defined?

No

Details

N/A

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