The 5th international conference on particle physics and astrophysics



Contribution ID : 838 Type : Oral talk

The mechanism of domain walls and strings formation in the early Universe

Thursday, 8 October 2020 12:20 (20)

A classical dynamics of two real scalar fields within a model with a saddle point potential in (2+1)-space-time is discussed. We show that in this model, solitons may be formed both as domain walls and strings in three dimensional physical space. The formation and evolution of these field configurations are considered.

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Session Classification: Gravitation and Cosmology

Track Classification: Gravitation and cosmology