

9th Shivalik HEPCATS (High Energy Physics, Cosmology, Astronomy: Theory and Simulations)



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Origin of magnetic fields during inflation and their subsequent evolution

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Magnetic fields are found everywhere in the universe, including in intergalactic space. One possible mechanism for producing seed magnetic fields is by assuming a breaking of conformal invariance during inflation. I shall describe this mechanism as well as the evolution and certain quantum measures of these magnetic fields in some inflationary models of interest.

Primary author: TRIPATHY, Sagarika

Co-authors: PARATTU, Krishna Mohan (IIT Mandi); RAVEENDRAN, Rathul nath (Indian Association for the Cultivation of Science, Kolkata, India); Prof. LAKSHMANAN, Sriramkumar (IIT Madras)

Presenter: PARATTU, Krishna Mohan (IIT Mandi)