

## IberiCOS 2022



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# Primordial magnetic field generation in theories of gravity with non-minimal coupling between curvature and matter

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The existence of magnetic fields in the universe is unmistakable. They are observed at all scales from stars to galaxy clusters. However, the origin of these fields remains enigmatic. It is believed that magnetic field seeds may have emerged, under conditions, from inflation. This possibility is analysed in the context of an alternative theory of gravity with non-minimal coupling between curvature and matter.

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