



Contribution ID: 839

Type: **Talk in the parallel session**

Ghosts in metric-affine gravity

Thursday, 8 July 2021 17:00 (25 minutes)

In this talk we will explicitly show how ghost degrees of freedom arise in a sub-class of metric-affine theories unless projective symmetry is enforced. Then, we will generalise the techniques employed in that particular case to argue why ghosts will arise in generic metric-affine theories of gravity around arbitrary backgrounds. We will also discuss some results on possible ways to avoid them.

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Session Classification: Ghost-Free Models of Modified Gravity: Massive Gravity, Horndeski and DHOST Theories, Other Related Models; Their Properties and Solutions.

Track Classification: Alternative Theories: Ghost-free models of modified gravity: massive gravity, Horndeski and DHOST theories, other related models; their properties and solutions.