Contribution ID: **28**   Type: **Oral presentation**

Stationary and axisymmetric solutions in modified gravity

Thursday 19 June 2025 17:40 (15 minutes)

This talk will address the study of stationary and axisymmetric exact solutions in scalar-tensor theories. We will review de Weyl problem in GR and its stationary extension, to present then a generalisation valid in the presence of scalar fields. We will show new rotating spacetimes in four and five dimensions and a systematic procedure to construct them. Extensions to generalised scalar-tensor theories are discussed as well.

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