

Contribution ID: 62 Type: Oral Competition (Graduate Student) / Compétition orale (Étudiant(e) du 2e ou 3e cycle)

The geometric trinity of gravity, an introduction to teleparallel and symmetric teleparallel gravity.

Tuesday 10 June 2025 11:30 (15 minutes)

The equivalent formulations of gravity will be introduced as General relativity (GR), Teleparallel Equivalent of General Relativity (TEGR), Symmetric Teleparallel Equivalent of General Relativity (STEGR) with a basis toward teleparallel gravity. Mathematical models of theses theories will be introduced with a emphasis on physical differences and mathematical differences. A brief section on the modified theories of f(R), f(T) and f(Q) will be mentioned as a reason of the existence of the equivalent formulations with some thesis results to be shown. The talk is aimed at a senior undergraduate or graduate level for those who have a basic understanding of general relativity

Keyword-1

General Relativity

Keyword-2

teleparallel gravity

Keyword-3

Modified theories of gravity

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