Contribution ID: **22**   Type: **Oral**

The Averaging Problem in the Teleparallel Equivalent to General Relativity

Tuesday 18 June 2024 15:00 (30 minutes)

The construction of an averaged theory of gravity based on Einstein's General Relativity is challenging due in one part to the difficulty in defining a mathematically precise covariant averaging procedure for tensor fields over differentiable manifolds. Even if one is able to address the first problem, a second problem has to deal with the non-linear nature of the gravitational field equations. Together, these two ideas have been called the averaging problem. The Teleparallel Equivalent to GR offers us a promising alternative.

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Session Classification: Session 1.3