Contribution ID: **82**   Type: **Talk/Seminar**

Solutions in Teleparallel Gravity: Gravitomagnetism and Rotational Effects

Wednesday 25 September 2019 16:00 (20 minutes)

The theory of $f(T)$ gravity shall be discussed in the context of gravitoelectromagnetism (GEM) where the modified GEM equations are discussed and derived. Through use of linearisation and perturbation techniques, specific metric solutions are obtained which are then used to investigate specific GEM effects such as the de Sitter and Lense-Thirring precessions. Following observations from Gravity Probe B, the $f(T)$ models are constrained and compared against cosmological constraints.

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Session Classification: Parallel Sessions

Track Classification: Parallel Sessions