

"The Trans-Carpathian Seminar on Geometry & Physics"

(See also the [Geometry & Physics @ DFT](#) seminar homepage)

Date: Wednesday, Oct. 29, 2025, 15:15 EET (Bucharest time)

Location: online via Zoom

Speaker: **Martha Valentina Guarín Escudero** (Charles Univ., Prague)

Title: **Fedosov Connections and L-infinity algebras associated to dg-Manifolds**

Abstract: In this talk, we discuss the construction of L-infinity algebras on the space of vector fields of a dg-manifold. By using similar ideas of Fedosov's approach to deformation quantization, we first construct a curved L-infinity algebra. This relies on defining a "Fedosov connection," closely related to the Spencer operator on the jet bundle of vector fields. In the second part of the talk, we discuss another L-infinity-algebra structure introduced by Stiénon, Xu, and Seoul, and compare it with our construction.

The talk is planned for 2x45 min.