

*Joint Seminar:* DFT (IFIN-HH) & "Geometry&Physics@DFT" (IFIN-HH)  
([Geometry&Physics Homepage](#)) ([DFT Seminars webpage](#))

*Date:* Tuesday, Nov. 15, 2022, 12:00 noon

*Speaker:* **Prof. Stefan Carstea** (IFIN-HH, Dept. of Theoretical Physics)

*Title:* **Generalized Volterra equations: solitonic phenomenology and singularities**

*Abstract:* Volterra equations are fundamental in biological modelling. From replicator equations to virus and epidemic dynamics they are applied with various forms. In this talk we will discuss a special class of higher order Volterra systems which display discrete soliton dynamics. It is shown that singularities play a fundamental role in this description.