

Seminar/Talk

Vladimir Tkatjev

Metrised algebras and applications

Linköping University, Sweden

Abstract: Jordan algebras were invented in the 1930s by Jordan, von Neuman, and Wigner in a hope of generalizing the orthodox formulation of quantum mechanics. As remarked by Kevin McCrimmon, “if you open up a Lie algebra and look inside, 9 times out of 10 there is a Jordan algebra (of pair) which makes it work”. Jordan algebras are only one of several interesting (and very related) classes of commutative nonassociative algebras appearing unexpectedly in different areas of physics and mathematics, including black hole physics, exotic viscosity solutions to nonlinear PDEs, and zero mean curvature cones. In my talk, I will give a short friendly introduction into the subject with a focus on metrized algebras and the Peirce decomposition toolkit.

- **Dia:** 09 de Julho de 2024;
- **Local:** Sala de Reuniões, Departamento de Matemática, UBI, 11h00min.