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Supergeometry - oddities of the square

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This course is an excursion into the marvelous world of supergeometry which plays an important role in mathematics and physics. On one hand, it is a natural, albeit at first glance unintuitive, generalization of ordinary geometry. On the other hand it plays a pivotal role in the theory of supersymmetry. Naively, one can replace “super” by “ $\mathbb{Z}/2\mathbb{Z}$ ”-graded, alongside introducing the Koszul sign-rule. This naive idea has far reaching consequences leading to the definition of supermanifolds and supersymmetry.

Key words: Super algebras, super manifolds, odd coordinates, fuzzy points, Supersymmetry, super quantum mechanics

Presenter: HUBER-YOUMANS, Donald