

Functional Analysis and Mathematical Physics
Interdepartmental Research Group
(FAMP)
Colloquium Series
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Talk 7: Linear Algebra, Physics Style

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Abstract

This talk will introduce junior physics students and non-physicists to the wonders of Bra-Ket notation, tensor products, and Kronecker products. Bra-Ket notation, developed by Dirac, greatly simplifies some tricky aspects of linear algebra, especially projections. We define the concept of tensor products of both vector spaces and linear operators on those spaces and justify their use in quantum mechanics and surprising phenomena that arise due to this mathematical structure.

Friday, April 13, 2018, 2:00-2:50 PM, PB 428