

MAFIA - seminář, který se neodmítá

**Positive maps of operator algebras: difficult
problem with lots of applications**

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Abstract: Maps that preserve positive elements of a C^* -algebra (e.g. positive semidefinite matrices) form a convex cone about which little is known in general. That knowledge though would offer important insight into the structure of entangled states on composite quantum systems. During this introductory lecture, I will outline that interesting relation between mathematics and quantum information theory and hint at some recent advances in the field of research.