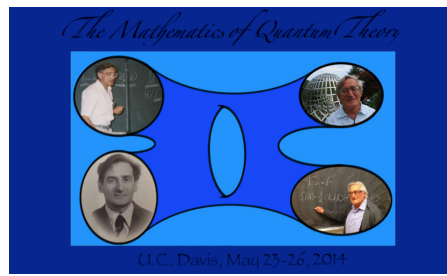


The Mathematics of Quantum Theory



Contribution ID: 6

Type: **not specified**

Degeneration of algebraic varieties and K-theory

Saturday 24 May 2014 14:45 (45 minutes)

The talk is based on our joint works with Kontsevich, Schwarz, and Walcher.

Let X be a smooth proper algebraic variety over the formal punctured disk, maximally degenerated at the origin. Generalizing Mumford's construction in the case of abelian varieties I will attach to X a certain mixed Tate motive over the punctured disk and explain some application of this construction to the Mirror Symmetry.

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