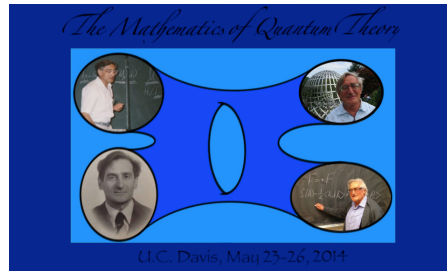


## The Mathematics of Quantum Theory



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# Symmetry Protected Topological Phases and Cobordisms”

*Sunday 25 May 2014 09:15 (45 minutes)*

Recently a new and rather unexpected connection between physics and algebraic topology has been noted. Namely, it appears that phases of matter with an energy gap, no long-range entanglement, and fixed symmetry can be classified using cobordism theory. I will exhibit several examples of this connection and describe a possible explanation.

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