Quantum Computing via Octonions

Abstract:
Quantum computing can be effected by a sequence of projective measurements. Such strategies are called, “measurement only”. The key geometric concept which ensures that system information does not leak to the environment during measurement is “equiangularity”. I will explain what the Octonions are and how they provide the largest families of equiangular subspaces of a Hilbert space.

Host: Bennett Chow

Thursday, October 3, 2019
4:00 PM
AP&M 6402