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3:30 PM

Virtual Talk
On Zoom



Eigenvalue Multiplicity and Equiangular Lines

Equiangular lines are collections of lines in Euclidean space, all passing through the origin and forming the same angle with one another. Given a fixed angle, a fundamental question is: what is the maximum number of such lines? I will present a solution to this problem, with a key step involving the proof that any connected graph with bounded degree has sublinear multiplicity of its second eigenvalue. I will also discuss recent developments and outline possible directions for future research.

Register in Advance for Zoom Link at:

<https://uregina-ca.zoom.us/meeting/register/5QljTQC3Ts2HIUH7in3F-g>