
RAM BAND, Technion

Neumann Domains

The nodal set of a Laplacian eigenfunction forms a partition of the underlying manifold or graph. An alternative partition, based on the gradient field of the eigenfunction, is via the so called Neumann domains. We introduce this subject for manifolds and metric graphs and point out the similarities and differences between nodal domains and Neumann domains. The talk is based on joint works with Lior Alon, Michael Bersudsky, Sebastian Egger, David Fajman and Alexander Taylor.