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Gregory Berkolaiko*, Department of Mathematics, Texas A&M University, MS 3368, College Station, TX 77843-3368. *From stability of nodal partitions on manifolds to nodal statistics on quantum graphs.*

The question of which partitions on manifolds correspond to the nodal sets of eigenfunctions gave rise to a plethora of interesting connections. We will review our recent results ranging from the stability of manifold partitions to the connection between nodal count and stability of eigenvalues under magnetic perturbation to the application of the latter to understanding statistics of nodal count for eigenfunctions of quantum graphs.

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