

Workshop on Spectrum and Dynamics  
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## Generic simplicity of polygons

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### **Abstract**

We consider Euclidean polygons with mixed Dirichlet/Neumann boundary conditions. We prove that in several families of such polygons, having simple spectrum is a generic property. The proof involves analytic perturbation theory and some control on the way eigenfunctions concentrate.

*This is joint work with Chris Judge (Indiana University).*