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Bounding the multiplicity of the Steklov eigenvalues of an orbisurface

The Steklov spectrum of a Riemannian orbifold with boundary is the eigenvalue spectrum of the Dirichlet-to-Neumann operator associated to the orbifold. This operator has applications in electrical impedance tomography, for example. We discuss bounding the multiplicity of the kth Steklov eigenvalue of a 2-orbifold in terms of the genus of the orbifold and the structure of its singular set.