## UPPER BOUNDS FOR STEKLOV EIGENVALUES

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The relationship between the Steklov eigenvalues of a Riemannian manifold and the geometry of its boundary has received a great deal of attention in recent years. One way to gain insight into this relationship is to obtain bounds for the Steklov eigenvalues in terms of some of the geometric quantities of the manifold and its boundary. We first recall some known geometric upper bounds for the Steklov eigenvalues of a Riemannian manifold. We then consider the Steklov eigenvalues of a submanifold of Euclidean space and present some geometric upper bounds involving the intersection index of the manifold and that of its boundary.

This is based on joint work with Bruno Colbois (Université de Neuchâtel).