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Eigenvalue and multiplicity bounds for the mixed Steklov problem

We will discuss how some of the eigenvalue and multiplicity bounds known for the Steklov problem can be extended and improved for the mixed Steklov problem. The main focus will be in the 2-dimensional setting. But we also discuss the higher-dimensional setting when we consider eigenvalue bounds.

The main part of the talk is based on joint work with T. Arias-Marco, E. Dryden, C. Gordon, A. Ray and E. Stanhope.