ECH spectral invariants and applications to Reeb flows on RP^3

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Embedded contact homology (ECH) is an invariant of contact closed three dimensional manifolds defined by Hutchings. It has several applications to symplectic embedding problems and Reeb dynamics. In this talk, I will recall the definition and some applications of ECH spectral invariants and their properties. In particular, we shall discuss recent results, including some work in progress, related to Reeb flows on the real projective three-space.