

## Matteo Tamiozzo, Bipartite Kolyvagin systems and the structure of Selmer groups

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Abstract. Bipartite Kolyvagin systems are incarnations of Jochnowitz congruences between special values of L-functions of congruent automorphic forms. In the case of Hilbert modular forms of parallel weight two, I will describe the connection between the p-parity conjecture and the non-triviality of such systems, and illustrate how they can be used to construct bases of Selmer groups modulo p. In the remaining time, I will discuss how the search for “higher Jochnowitz congruences” is related to the plectic conjectures.