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L-spaces, left-orderability and foliations

Much work has been devoted in recent years to examining relationships between the existence of a co-oriented taut foliation in a closed, connected, prime 3-manifold W , the left-orderability of the fundamental group of W , and the property that W not be a Heegaard-Floer L-space. In this talk I will report on this work and in particular I will discuss evidence for the conjecture that an irreducible rational homology 3-sphere is an L-space if and only if its fundamental group is not left-orderable.

This is joint work with Cameron Gordon and Liam Watson, with Adam Clay, and with Michel Boileau.