

ABSTRACT:

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L-spaces, taut foliations, and orderability

I will discuss a recent and well-known conjecture, popularized by Boyer-Gordon-Watson and others, that poses an intriguing relationship between three apparently different aspects of 3-manifold theory: Heegaard Floer homology, the existence of taut foliations, and left-orderability of the fundamental group. The talks will build up the necessary background material for appreciating the conjecture and survey the flurry of recent work surrounding it, which has generated fresh insight into all of the components involved in it.