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The JSJ graph of knot exteriors and the L-space conjecture

We report on joint work with Cameron Gordon and Ying Hu which shows that the underlying space of the JSJ graph of a knot in the 3-sphere is an interval if it admits an irreducible surgery which is either an L-space or has non-left-orderable fundamental group. The L-space conjecture predicts that a similar conclusion holds for knots having irreducible surgeries admitting no co-oriented taut foliations and we discuss to what extent we can prove this.