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Title: Taut foliations from knot diagrams

Abstract: Taut foliations have been a classical object of study in 3-manifolds theory. Recently, new interest in them has come from the investigation of the so-called "L-space conjecture", that predicts that manifolds containing a co-orientable taut foliation can be characterised in terms of their Heegaard Floer homology and their fundamental group. A possible approach to the study of this conjecture is analysing Dehn surgeries on knots and links. Most of the techniques employed for constructing taut foliations on Dehn surgeries usually make use of some property of the exterior of the link, for example its fiberedness. It is therefore interesting to address this study from a different perspective, using other types of properties of knots and links. In this talk I will present a result about the existence of taut foliations on all non-trivial surgeries on knots with a special diagram.