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Selflessness for W^ -bundles*

In my talk, I will discuss a new result providing a positive answer to a natural problem about continuous families of projections in II_1 -factors. The problem is naturally viewed through the lens of “ W^* -bundles”, and our proof is via a novel technique which utilises free probability theory in a uniform manner across these bundles. This leads to the notion of selflessness for W^* -bundles, which also provides a number of other regularity properties for these objects, such as strict comparison, real rank zero, and stable rank one. This is joint work with David Jekel and Stuart White.