Cut and paste invariants of manifolds via algebraic K-theory
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Recent work of Campbell and Zakharevich has focused on building machinery for studying scissors congruence problems via algebraic K-theory and applying these tools to studying the Grothendieck ring of varieties. In this talk, I will present a new application of their framework: the construction of a spectrum that recovers the classical SK ("schneiden und kleben," German for "cut and paste") groups for manifolds with boundary, and the construction of a derived version of the Euler characteristic.