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Juanita Pinzón Caicedo* (jpinzon@uga.edu). *An Overview of Relative Trisections.*

In 2012 Gay and Kirby developed the notion of trisections of closed 4-manifolds and briefly mentioned relative trisections as a way to adapt their definition to include 4-manifolds with boundary. In this talk I will introduce a rigorous definition of relative trisections, describe their relationship with open book decompositions, introduce the notion of diagrams of relative trisections, and present a few representative examples. This is joint work with Nick Castro. (Received January 18, 2016)