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Juanita Pinzon-Caicedo* (jpinzon@uga.edu), **N. Castro** and **D. Gay**. *Diagrams of Relative Trisections.*

In 2012 Gay and Kirby introduced a new decomposition of 4-manifolds and described diagrams for closed 4-manifolds. In joint work with Gay and Castro, we extended the diagrammatic approach to include the relative case. In this talk I will define trisection diagrams for 4-manifolds with boundary, describe a few (families of) examples, and describe a method to recognize the open book decomposition of the boundary from the diagrams themselves. (Received September 13, 2016)