

1123-57-338

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

In 2012 Gay and Kirby introduced trisections, 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 explain how to "read" the open book decomposition of the boundary from a trisection diagram. (Received August 29, 2016)