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Juanita Pinzon-Caicedo* (jpinzon@ncsu.edu). *Relative trisections and HF contact invariants*. Preliminary report.

A relative trisection of a 4-manifold W with connected boundary ∂W is a decomposition of W into three 4-dimensional 1-handlebodies that induces an open book decomposition on the boundary ∂W . Thus, relative trisections can be regarded as fillings of open book decompositions and the latter are known to carry geometric information. This talk explores the connection between the topology of the trisection and the geometry of the contact structure via Heegaard 4-tuples and the contact invariant(s) in Heegaard Floer homology. (Received September 04, 2018)