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Peter Feller and **Diana Hubbard*** (diana.hubbard@brooklyn.cuny.edu). *On open book decompositions of contact manifolds and the fractional Dehn twist coefficient*. Preliminary report.

In 2000, Giroux proved a fundamental theorem that gives a correspondence between oriented contact structures and open book decompositions of closed, oriented 3-manifolds. In 2004, Etnyre proved that any overtwisted contact manifold can be represented by an open book that is planar. It is an open question whether there exist any tight contact manifolds that cannot be represented by open book decompositions with genus zero or one. In this talk I will discuss some observations about a family of examples that are relevant to this question - namely a family of tight contact manifolds whose open book decompositions have large fractional Dehn twist coefficients. (Received January 27, 2019)