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John B Etnyre* (etnyre@math.gatech.edu), School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30332. *Open books and cabling.*

Giroux's correspondence between open books and contact structures has become instrumental in studying contact structure on 3-manifolds. In this talk I will discuss joint work with Ken Baker and Jeremy Van Horn-Morris concerning the effect on the contact structure when one cables the binding components of an open book decompositions. As corollaries of this result I will exhibit interesting monoids in the mapping class group of surfaces and discuss positive monodromies and Stein fillings of contact structures. (Received January 25, 2009)