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Matthew E Hedden* (mhedden@math.msu.edu), Department of Mathematics, Wells Hall, East Lansing, MI 48823. *A 4-dimensional interpretation of tightness?*

I'll ask about a 4-dimensional interpretation of what it means for a contact structure on a 3-manifold to be tight, and show that such an interpretation exists for contact structures with non-vanishing Ozsvath-Szabo contact invariant. I'll also discuss 4-dimensional aspects of the question which asks whether a given open book decomposition yields a tight contact structure. (Received September 24, 2012)