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Thomas Mark* (tmark@virginia.edu), PO Box 400137, University of Virginia, Charlottesville, VA 22904. *How (not) to classify Stein fillings of planar contact structures.*

I will outline a strategy for studying the diffeomorphism type of Stein 4-manifolds that are fillings of contact structures on 3-manifolds, where the contact structure is supported by an open book of genus 0. The method gives rise to some interesting conjectures and partial results that I'll describe, but I'll also indicate what seems to be a serious obstacle to using this strategy to prove the conjectures in general. (Received January 27, 2014)