1042-54-83   **David Shea Vela-Vick*** (`dvick@math.upenn.edu`), Department of Mathematics, 209 South 33rd Street, Philadelphia, PA 19104. *The Transverse Invariant and Bindings of Open Books.*

Let $T \subset (Y, \xi)$ be a transverse knot which is the binding of some open book, (T, π), for the ambient contact manifold (Y, ξ). In this talk, we show that the transverse invariant $\widehat{\mathcal{T}}(T) \in \widehat{HFK}(-Y, K)$, defined by Lisca, Ozsváth, Stipsicz, and Szabó (LOSS), is nonvanishing for such transverse knots. We will also discuss a vanishing theorem for the invariants defined by LOSS. As a corollary, we will see that if (T, π) is an open book with connected binding, then the complement of T has no Giroux torsion. (Received August 11, 2008)

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