Temple University Geometry Seminar

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will speak on

Transverse invariants and bindings of open books

ABSTRACT: Let T be a transverse knot in (Y, ξ) 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, defined by Lisca, Ozsvath, Stipsicz, and Szabo (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. Time permitting, we will also talk about a generalization of this theorem which removes the connected binding condition.

Tuesday, 18 November 2008
Lecture at 1:10 pm
Coffee, tea, and refreshments from 3-5 pm
Room 617, Wachman Building
Department of Mathematics