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Sutured Floer homology and invariants of Legendrian and transverse knots.

Using contact-geometric techniques and sutured Floer homology, we present an alternate formulation of the minus and plus version of knot Floer homology. We further show how natural constructions in the realm of contact geometry give rise to much of the formal structure relating the various versions of Heegaard Floer homology. In addition we discuss how to define invariants of Legendrian and transverse knots from this perspective that recover the Legendrian/transverse invariant defined by Lisca, Ozsvath, Stipsicz, and Szabo despite a strikingly dissimilar definition. (Received September 08, 2014)