

Augmentations and sheaves for links

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We study link invariants arisen from contact topology. The conormal bundle of a link at the contact boundary of the Weinstein cotangent bundle is a Legendrian surface, whose Legendrian isotopy invariants are link invariants. The framed cord algebra is the degree zero homology of the Legendrian contact dga of the conormal tori, and augmentations of the algebra are rank one representations. Microlocal sheaves microsupported along the Legendrian surface also form a category which is invariant under isotopies, following a result of Guillermou-Kashiwara-Schapira. We will explain the relation between these two invariants in this talk.

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