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Symplectic homology and linearized contact homology

The setup considered is that of an exact symplectic manifold W with contact type boundary M . I will explain that linearized contact homology of M is isomorphic to positive S^1 -equivariant symplectic homology of W . This result is part of a bigger picture: any version of symplectic homology is isomorphic to a suitable version of linearized contact homology, and conversely, so that the two theories are entirely parallel. The dominant point of view is that of S^1 -equivariant constructions and Gysin exact sequences.

Joint work with Frédéric Bourgeois (Brussels) and Kai Cieliebak (Munich).