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Poincare duality and TQFT structures for loop spaces

Wednesday 31 August 2022 10:10 (50 minutes)

This talk is about ongoing joint work with Nancy Hingston and Alexandru Oancea.
I will explain how various puzzles in string topology get resolved in terms of symplectic geometry: Loop space homology and cohomology are merged into a larger space, Rabinowitz Floer homology, which carries the structure of a graded TQFT and satisfies Poincare duality.

Presenter: CIELIEBAK, Kai (Augsburg)