

THE CONSTRUCTION OF FLOER HOMOLOGY

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In the 1980s, the construction of Morse homology served as a prototype for Andreas Floer to define a homology spanned by 1-periodic Hamiltonian diffeomorphisms on symplectic manifolds. This has become an essential tool for symplectic geometers while still being an interesting research topic by itself. In this talk we will sketch the original construction of the homology given by Floer, highlighting the most important aspects required to define it, and we will also comment on how this tool was originally used to proof the Arnold conjecture.