

1135-58-1030 **Katrin Wehrheim***, Math Department, Evans Hall #3840, Berkeley, CA 94720. *Polyfold Lab Report.*

I will survey various results on applications and extensions of Hofer-Wysocki-Zehnder's polyfold theory, such as fiber products of polyfold Fredholm sections' equivariant transversality - existence and obstructions; equivariant fundamental class; Gromov-Witten axioms; two polyfold proofs of the Arnold conjecture. These are joint with or due to Peter Albers, Ben Filippenko, Joel Fish, Wolfgang Schmaltz, and Zhengyi Zhou. (Received September 18, 2017)