Linearization and Transversality

D. Zack Garza

#### Review 8.2

Space of Perturbations of H

Section 8.4: Linearizing the Floer Equation: The Differential of F

# Linearization and Transversality

Sections 8.3 and 8.4

D. Zack Garza

April 2020

Linearization and Transversality

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### Review 8.2

pace of Perturbations of

Linearizing the Floer Equation:
The Differential

Review 8.2

Linearization and Transversality

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Review 8.2

Section 8.3: The Space of Perturbations of

Section 8.4: Linearizing the Floer Equation: The Differential

# Section 8.3: The Space of Perturbations of H

## Goal

Linearization and Transversality

D. Zack Garza

Review 8.2

Section 8.3: The Space of Perturbations of H

Section 8.4: Linearizing the Floer Equation: The Differentia of F

### Goal:

Given a fixed Hamiltonian  $H \in C^{\infty}(W \times S^1; \mathbb{R})$ , perturb it (without modifying the periodic orbits) so that  $\mathcal{M}(x, y)$  are manifolds of the expected dimension.

Linearization and Transversality

Section 8.4: Linearizing the Floer Equation:

The Differential

Section 8.4: Linearizing the Floer Equation: The Differential of F