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Peter William Bates and Jiayin Jin^{*} (jin@math.gatech.edu), School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30332, and Kening Lu and Chongchun Zeng. Center manifolds of approximately invariant manifolds for maps with applications.

We extend the results in [Bates, Lu and Zeng, Approximately Invariant Manifolds and Global Dynamics of Spike States, Inventiones Mathematicae, 174 (2008), 355-433] to case without normal hyperbolicity. We then show several applications of our abstract results to dispersive Hamiltonian PDEs. (Received January 17, 2019)