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**Susan Tolman\*** (tolman@illinois.edu). *Non-Hamiltonian symplectic circle actions.*

Frankel proved many years ago that symplectic circle actions on compact, connected Kahler manifolds with fixed points must be Hamiltonian. In contrast, as McDuff proves, there exist non-Hamiltonian symplectic circle actions on compact, connected symplectic manifolds with fixed tori. Several years ago, the author constructed a non-Hamiltonian symplectic circle action on a compact, connected six dimensional manifolds with isolated fixed points, thus answer a question posed by McDuff. However, that example had 32 fixed points. More recently, in joint work with D. Jang, we have been able to construct many more examples, with as few as 10 fixed points. (Received September 10, 2019)