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Paul Feehan and **Thomas Leness*** (lenesst@fiu.edu). *Virtual Morse theory and $SO(3)$ Monopoles.*

We describe some recent joint work with P. Feehan on the Morse theory of a function on the moduli space of $SO(3)$ monopoles on a smooth four-manifold and sketch some applications to the topology of smooth four-manifolds. (Received December 27, 2020)