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**David E Hurtubise\*** (Hurtubise@psu.edu), 16601. *Morse-Bott multicomplexes and cascades.*

Morse-Bott chain complexes are currently of interest in symplectic topology in relation to contact homology, Floer homology, and symplectic field theory. There are at least three different approaches to defining a Morse-Bott chain complex: 1) perturb the function to a Morse function, 2) use cascades, and 3) define a Morse-Bott multicomplex. In this talk I will give a brief outline of each approach and discuss how the first two approaches can lead to the same chain complex. (Received February 02, 2011)