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Christopher Allen Manon* (cmanon@gmu.edu), 4400 University Drive, MS: 3F2, Exploratory Hall, Fairfax, VA 22030. *Contraction of a Hamiltonian K -space.*

I will describe how to construct the contraction X_0 of a Hamiltonian K -space X . In terms of symplectic and algebraic geometry, the contraction X_0 is very similar to X yet it comes equipped with a Hamiltonian $K \times T$ action for $T \subset K$ a maximal torus. I'll also discuss how contraction emerges algebraically from the horospherical contraction operation of Popov, and its relationship to recent work of Harada and Kaveh on Newton-Okounkov bodies. This is joint work with Joachim Hilgert and Johan Martens. (Received September 12, 2016)