1054-55-178 Anssi S. Lahtinen* (aslahtin@stanford.edu). The Atiyah–Segal completion theorem in twisted K-theory.

According to the Atiyah–Segal completion theorem, the K-theory of the Borel construction of a finite G-CW complex X is the completion of the G-equivariant K-theory of X with respect to the augmentation ideal of the representation ring of G. I will discuss a generalization of this theorem to twisted K-theory and explain how the generalized theorem fits into a picture connecting the Verlinde algebra of G to the String Topology of BG. (Received September 13, 2009)