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Jacobson R. Blomquist*, 100 Math Tower, 231 W 18th Ave, Columbus, OH 43210. *Higher stabilization and completion with respect to stable homotopy.*

We will explain how estimates from a higher stabilization theorem show that the stable homotopy completion studied by Carlsson, and subsequently in Arone-Kankaanrinta (S-localization), fits into a derived adjunction via the Arone-Ching theory that can be turned into a derived equivalence by restricting to simply connected spaces. If time permits, the analogous results from finite suspensions of spaces, and their analogs and duals in structured ring spectra, will be discussed. (Received January 21, 2018)