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Yariana G Diaz* (yariana-diaz@uiowa.edu), **Ryan Kinser** and **Cody Gilbert**. *Total Stability Functions for Dynkin Quivers and Almost Split Sequences*. Preliminary report.

We provide an efficient criterion for determining which stability functions make all indecomposable representations of a Dynkin quiver Q stable. By definition this requires considering an inequality for each pair consisting of one indecomposable representation of Q and one of its proper, non-zero subrepresentations. We use Auslander-Reiten theory to significantly reduce the number of inequalities down to one inequality for each almost split sequence with indecomposable middle term. (Received January 18, 2021)