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Helene R Tyler* (helene.tyler@manhattan.edu), Department of Mathematics and Comp. Science, Manhattan College, Riverdale, NY 10471. *Slices, Tilting Sets, and Annihilating Sequences of BGP-Reflection Functors.*

This talk concerns preprojective representations of a connected quiver without oriented cycles. For each such representation, there is a shortest sequence of reflection functors that annihilates it, which is unique up to a certain equivalence. This combinatorial invariant reveals an interesting connection between slices in the module category of the quiver's path algebra and tilting sets in its Auslander-Reiten quiver. (Received September 13, 2009)