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Auslander-Reiten quiver and representation theories related to KLR-type Schur-Weyl duality.

We introduce new notions on the sequences of positive roots by using Auslander-Reiten quivers. Then we can prove that the new notions provide interesting information on quantum groups of finite types, by using their categorifications via modules over KLR-algebras and quantum affine algebras. (Received September 21, 2015)