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Spaced-out m-clusters

"Spaced-out" clusters of type A_n are cluster tilting objects in which no two objects are connected by an irreducible map. For those clusters, "internal mutations" are given by the octagon axiom for a triangulated category. I will describe the spaced-out clusters in the m-cluster category to type A_n and show how the internal mutations are given by a generalization of the octagon axiom.

Joint work with Gordana Todorov.