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Representations of generalized Weyl algebras arising from non-commutative cluster structures.

In this talk we will introduce a class of non-commutative algebras that carry a cluster-like structure. These algebras are related to generalized Weyl algebras. The space of all cluster monomials gives rise to a combinatorial data which will be used to construct an indecomposable and irreducible representations of the associated generalized Weyl algebras. (Received September 11, 2014)