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*Representations of Gan-Ginzburg algebras and quiver-related differential operators.* Preliminary report.

Gan-Ginzburg algebras are one-parameter deformations of the wreath product of a symmetric group with a deformed preprojective algebra of a quiver. When the quiver is extended Dynkin, these algebras are related by a Morita equivalence to the symplectic reflection algebras of Etingof and Ginzburg, which are analogs of Hecke algebras of double affine type. We will explain how to construct representations of a Gan-Ginzburg algebra starting from modules over the algebra of differential operators on a space of representations of the corresponding quiver. (Received February 09, 2010)