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Chiara Damiolini*, Department of Mathematics, 304 Washington Rd, Princeton, NJ. *Conformal blocks from vertex algebras.*

In this talk I will present how to attach, to modules over conformal vertex algebras, quasi-coherent sheaves on moduli of stable pointed curves. This construction generalizes classical vector bundles of conformal blocks defined using affine Lie algebras. Properties of these sheaves will be discussed. This is joint work with A. Gibney and N. Tarasca. (Received January 27, 2019)