

1077-17-2259

Marco A Aldi* (aldi@brandeis.edu) and **Reimundo Heluani**. *Twisted Nilmanifolds and Dilogarithmic OPEs*.

We describe new representations of certain central extensions of 2-step nilpotent Lie algebra. Our construction resembles that of lattice vertex algebras, but the basic OPEs have dilogarithmic singularities. The geometry of the underlying nilmanifolds reveals the existence of a natural class of intertwiners. (Received September 21, 2011)