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Bojko Bakalov (bojko_bakalov@ncsu.edu) and **Nikolay M Nikolov***
(nikolay.m.nikolov@gmail.com). *Vertex algebras in higher dimensions and their restrictions to dimension one.*

Vertex algebras in higher dimensions correspond to models of quantum field theory with global conformal invariance. The one-dimensional restriction of a vertex algebra in higher dimensions to a time-like line gives a (usual) vertex algebra endowed with an action of the (higher-dimensional) conformal Lie algebra. We announce that from such data one can reconstruct the initial vertex algebra. (Received September 13, 2010)