

1048-81-216

Iana I Anguelova* (anguelov@math.sunysb.edu), Iana Anguelova, Department of Mathematics, Stony Brook University, Stony Brook, NY 11794. *Vertex algebras: generalized, twisted and quantum—a comparison*. Preliminary report.

The bicharacter presentation of a vertex algebra provides an excellent tool for studying its properties. I will provide a bicharacter description of some typical examples of generalized, twisted and quantum vertex operators. Based on that one can compare the different properties such as location and type of singularities, associativity, etc., and eventually formulate an axiomatic system encompassing the variety of the examples. (Received February 08, 2009)