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Ben Cox*, 66 George Street, Dept. of Mathematics, The College of Charleston, Charleston, SC 2946, and **Xiangqian Guo**, **Rencai Lu** and **Kaiming Zhao**. *N-point Virasoro algebras and their modules of densities*.

In this talk we introduce and describe what we call the n-point Virasoro algebra which is a natural generalization of the classical Virasoro algebra and is the universal central extension of the multipoint genus zero Krichever-Novikov type algebra. We determine the necessary and sufficient conditions for such algebras to be isomorphic, their automorphisms, their derivation algebras, their universal central extensions, and some other properties. In particular we find that the automorphism group is either the trivial group or one of the five finite subgroups of $SU(2, \mathbb{C})$: C_n , D_n , A_4 , S_4 or A_5 . We give examples showing that each of these groups occurs. We also construct a large class of modules which we call dense modules, and determine the necessary and sufficient conditions for them to be irreducible. (Received June 27, 2011)