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Abstracts of Short Communications and Posters

Section:

11. Mathematical Physics

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Bytsko, Andrei, Steklov Mathematics Institute, St. Petersburg, Russia
On factorized Virasoro characters.
The characters of *minimal* Virasoro models are known explicitly in an infinite sum form. I will present some cases in which characters of minimal models or their linear combinations are *factorizable*, i. e. admit an infinite product form, or more precisely, are given as a product of finite number of functions known in mathematical physics as the *quantum dilogarithm*. The factorized form of the characters significantly simplifies the task of finding various types of identities relating characters from different sectors and different models. The characters of some super-conformal models will also appear in this context.
References: A. G. Bytsko and A. Fring, Anyonic interpretation of Virasoro characters and the thermodynamic Bethe ansatz, to appear in *Nucl. Phys.* **B 521** (1998); A. G. Bytsko and A. Fring, On factorized Virasoro characters in minimal models, in preparation.