Contribution ID: **92** Type: **not specified**

Special class of SU(2) two-point functions on the torus

Wednesday, 26 September 2012 15:50 (20 minutes)

I discuss two-point functions on the torus in the SU(2) Wess-Zumino-Witten model. I construct an explicit expression for the current blocks of the spin-k/2-spin-k/2 torus two-point function. As a first check, I consider the factorization limits of the current blocks as well as their monodromy properties. I then prove that the current blocks solve the corresponding Knizhnik-Zamolodchikov-like equations, which are constructed by the method of Mathur, Mukhi and Sen.

Primary author: Dr KIRSCH, Ingo (DESY Hamburg)

Co-author: Mr KALAYDZHYAN, Tigran (DESY Hamburg)

Presenter: Dr KIRSCH, Ingo (DESY Hamburg)

Session Classification: Parallel Session 3: Strings & Mathematical Physics

Track Classification: Strings & Mathematical Physics