



Contribution ID: 215

Type: **Talk**

String tension from smearing and Wilson flow methods

Thursday, 26 June 2014 15:15 (20 minutes)

Last year, we proposed a new method to extract string tension using 4-dimensional smearing method (PL B718 (2013) 1524). In this talk we first show that results using smearing method are equivalent to those obtained by Wilson flow once the time step ϵ is sufficiently small. We then demonstrate the practical advantage of our method by applying it to the calculation of Creutz ratio in SU(3) Yang-Mills theory.

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Session Classification: Theoretical Developments

Track Classification: Theoretical Developments