



Contribution ID: 85

Type: **not specified**

## Running of the Schroedinger functional coupling with four massless flavours

*Tuesday, 15 June 2010 17:00 (20 minutes)*

I discuss the status of different determinations of  $\alpha_s$ , motivating a precise and reliable computation from lattice QCD. In order to suppress perturbative errors, the non-perturbative computation has to reach high energy scales  $\mu$ . Such results already exist in the SF-scheme for  $N_f=0,2,3$ . We now add the running with four massless flavours in a range of  $\alpha$  from about 0.07 to 0.3. It is based on our recent determination of the Sheikholeslami Wohlert coefficient in the four-flavour theory.

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talk

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**Session Classification:** Parallel 32: Standard model parameters and renormalization

**Track Classification:** Standard model parameters and renormalization