



Contribution ID: 249

Type: **Talk**

## Gradient flow and IR fixed point in $SU(2)$ with $N_f=8$ flavors

*Wednesday, 15 July 2015 14:40 (20 minutes)*

$SU(2)$  with  $N_f=8$  flavors of fundamental fermions is expected to feature an infrared fixed point (IRFP). We measure the evolution of the coupling constant with Schrödinger functional boundary conditions and gradient flow, using HEX-smearred Wilson-clover action. We observe clear evidence for a fixed point, qualitatively compatible with perturbative results.

**Primary author:** Mr LEINO, Viljami (University of Helsinki)

**Co-authors:** Dr RANTAHARJU, Jarno (CP3-Origins); Mr SUORSA, Joni (University of Helsinki, Helsinki Institute of Physics); Prof. RUMMUKAINEN, Kari (University of Helsinki); Dr TUOMINEN, Kimmo (University of Helsinki); Mr RANTALAIHO, Teemu (University of Helsinki); Dr KARAVIRTA, Tuomas (CP3-Origins)

**Presenter:** Mr LEINO, Viljami (University of Helsinki)

**Session Classification:** Physics Beyond the Standard Model

**Track Classification:** Physics Beyond the Standard Model