

Infrared behavior of the SU(2) running coupling

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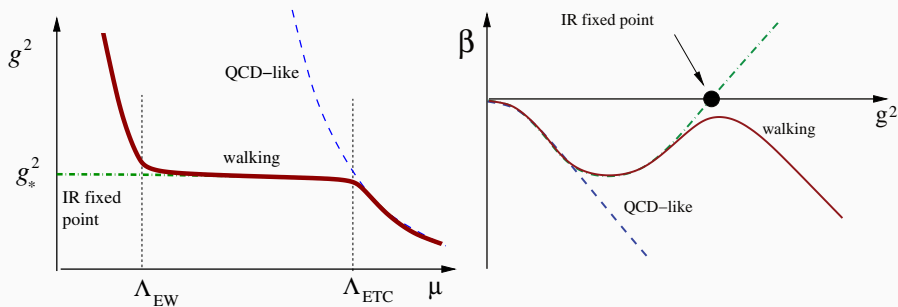
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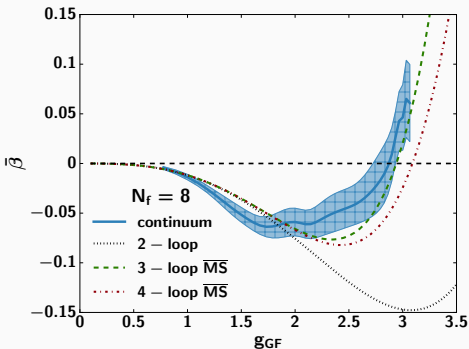
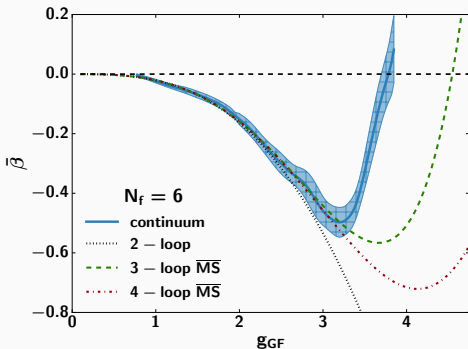
12.12.2016 PAPU-meeting

Infrared properties of strongly interacting theories



- SU(2) gauge theory with massless fundamental fermions
- Depending on number of fermions infrared behavior can be:
 - Confining
 - Walking
 - Conformal
 - Asymptotic freedom lost

Results



- Study $N_f = 6$ and $N_f = 8$ cases
- Both are seen to feature an infrared fixed point
- Previously known: $N_f = 4$ is confining, $N_f = 10$ is Conformal