

Theory group highlight

- ♦ Research: 5-loop QCD beta function!
 - ▶ Uses R* method and FORCER programme
 - ✓ for 4-loop self-energy diagrams
 - ▶ and, of course, FORM
 - ▶ 9414 five-loop diagrams
- ♦ PRL on N=4 conformal supergravities
 - ▶ Butter, Ciceri, De Wit, Sahoo
- ♦ HPP (FOM programme meeting)
 - ▶ Going well, varied, well-attended
 - ▶ New: Plot/pie of the month

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LTH 1117

arXiv:1701.01404-v1

The five-loop beta function of Yang-Mills theory with fermions

F. Herzog^a, B. Ruijl^{a,b}, T. Ueda^a, J.A.M. Vermaseren^a and A. Vogt^c

Theory meeting ϵ G^2 $\mathcal{E}(h) = \frac{\epsilon^2}{h} \Gamma^N(h) - Q(h) \Gamma^2(h)$
[NIKHEF theory group]

Agenda Februari 24

Time: 10.00 - 17.00

- 10.30 - 11.00, H320:

Govert Nijs (Utrecht)

Inverse Magnetic Catalysis from improved Holographic QCD in the Veneziano limit

- 13.00 - 13.30, H320
Plot of the Month/Pie of the Month

- 15.00 - 16.00, H320
Student meeting/discussion:

Fabian Springer (VU-UVA)

Symmetries of the Standard Model

- 16.30 - 17.00, H320

Yoshimasa Kurihara (KEK)

Recent results from GRACE system