

Theory group meeting

François Arleo

25 October 2023

Bienvenue !

Two young researchers join us for 3 years !

- Killian Bouzoud (PhD) working with Jacopo
- Greg Jackson (postdoc) working with Jacopo (ANR Autotherm)

- 50y of neutral currents, 40y of W and Z bosons (31 October 2023, CERN, online)
 - ▶ Live webcast
- Quarkonium as Tools 2024 (7–13 Jan, Aussois)
 - ▶ <https://indico.cern.ch/event/1324160/>
- Rencontres des Particules (24-26 Jan, Paris)
 - ▶ <https://indico.in2p3.fr/event/31018/>
- DIS 2024 (8-12 April, Grenoble)
 - ▶ <https://lpsc-indico.in2p3.fr/event/3268/>
- SQM 2024 (3-7 June, Strasbourg)
 - ▶ <https://indico.in2p3.fr/event/29792/>
- QCD Master Class 2024 (23 June - 6 July, Saint-Jacut)
 - ▶ <https://indico.cern.ch/e/QCDMasterClass2024>

Conseil Scientifique (CS)

- New cycle for CS, whom members will be partly renewed
 - ▶ Future members: Annick Billebaud, María José Garcia Borge, Denis Dauvergne, Bolek Wyslouch... and a theorist
- Anyone you would like to suggest? Looking for someone
 - ▶ preferably in Europe
 - ▶ who knows well our field but with a broad view in physics

Full professor position

- Ginés informed me that the 2024 PR position initially **promised** in the Theory group will be assigned to the Neutrino group
- Ginés **promised** that there will be a PR position assigned to the Theory group in 2025

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*O, swear not by the moon, th' inconstant moon,
That monthly changes in her circle orb.*

— *William Shakespeare*

Recent papers

- G. Royer, T. Boureau, N. Potiron, Dependence of the fission half-lives of heavy nuclei on the highest proton magic number within a macro-microscopic approach, [Phys. Rev. C 108 \(2023\) 034307](#)
- J. Zhao, J. Aichelin, P.-B. Gossiaux, K. Werner, Heavy flavor as a probe of hot QCD matter produced in proton-proton collisions, [2310.08684](#)
- P. Caucal, F. Salazar, B. Schenke, T. Stebel, R. Venugopalan, Back-to-back inclusive dijets in DIS at small x : Complete NLO results and predictions, [2308.00022](#)

- Need for a HAL validator, checking 2/year that our articles are properly labeled on HAL. Any volunteer?
- Mind the 30 November deadline for your missions!
- Renewal of IN2P3 management in progress