

# INTENSITY

*frontier*

GDR-InF

## The Future of the Intensity Frontier

*Table Ronde*

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# The Intensity Frontier

Probe NP pushing the experiment's luminosity rather than the energy scale.

## Strategies

- 1) Look for deviations in measurements of SM processes from theory predictions
- 2) Search for hugely suppressed or forbidden processes in SM

=> require high intensity



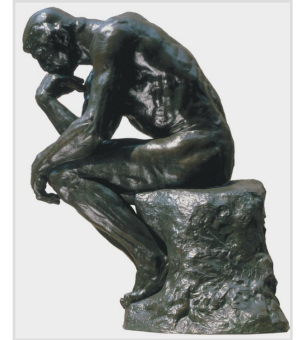
“Symmetry” (08/01/2008)

# The Intensity Frontier in France

Lots of activities in the field in France

## Theory:

- lattice QCD, effective field theories, sum rules calculations
- Beyond the SM model building and phenomenology
- Fitting tools (CKMFitter, UFit,...)



## Experiments:

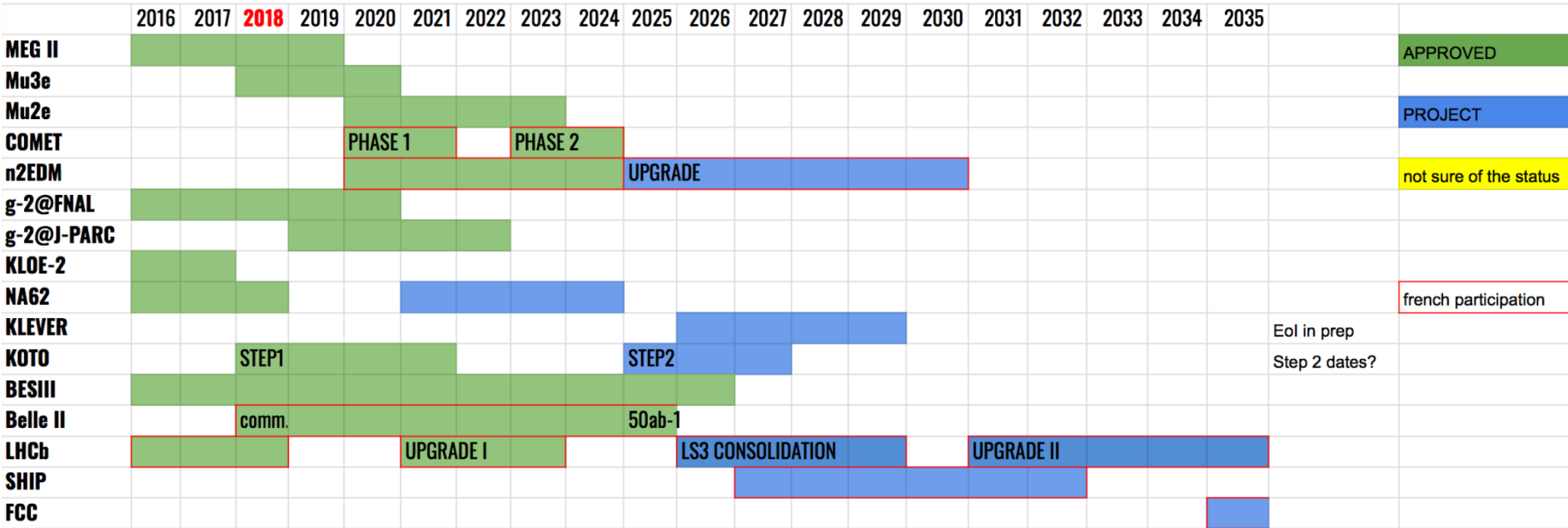
- Past: CPLEAR, NA48, BaBar... (certainly not exhaustive)
- Present: LHCb, nEDM@PSI, ...
- Future: Belle2, COMET, SHIP... (at different levels)



Always keeping an eye on:

- the rest of the national and international community
- other experiments in the planning or running phases: NA62, MEG, FCC, ....

# Experimental timeline for the future



*Status as of the 2nd February 2018*

# Introducing the panel



Alain Blondel



Javier Redondo



Asmaa Abada



Augusto Ceccucci



Jacques Lefrancois

# The Future of the Intensity Frontier: Questions for the Panel

- Theoretical motivations: hierarchy problem(?), dark matter, fermion masses, strong CP problem ..... Are these the real fundamental questions to be answered? What is the priority!?
- Are current experiments answering these questions?
- Should we reinforce ongoing experiments, invest in upgrades or diversify effort? Where is there greatest discovery potential? Do we need to be more creative?
- Are we satisfied with the funding situation in France for CNRS/Univ posts, postdocs, students?
- Does it make sense that we try to coordinate our strategy with the rest of the world? If yes, how can the GDR help organising this effort?