

OF PROJECTS IN THE PIPELINE!

Current projects...

ATLAS (SLIM for Pixel Upgrade, and IBL "post studies")

DAMPE (Flight model assembled and qualified for launch...and launched!!)

CTA (108 modules assembled for Camera Proto + cooling design)

AIDA, BabyMIND (50 X-Y modules produced!)

Mu3e, Na61 (Tests beam at CERN, fiber strip developments ongoing...)

POLAR (Flight model and its spare have been qualified for launch)

ICARUS (Design of a tool for WA104 cryostat welding at CERN)

...and new commitments!

ATLAS (SLIM for PIXEL, 2023?)

PANGU, HERD (R&D in astrophysics...around 2020)?

TASD + baby MIND (AIDA), Mu3e (Neutrinos, towards 2017...)

CTA (Camera proto delivery in 2016) ... and next camera(s)?

Workshop & Clean rooms

Coralie Laurent Maarten Maxime



Note that **Maarten** is leaving
in 2016 (July)
in 2016 (position not renewed!!

Maxime position

Design & Engineering



Laurent and Maarten in overlap with Workshop activities Sébastien (Engineer on ATLAS), Franck (Head of Mechanical Group)

... without forgetting Catherine, Liliane, Nathalie, Yann and our "Central" workshops...

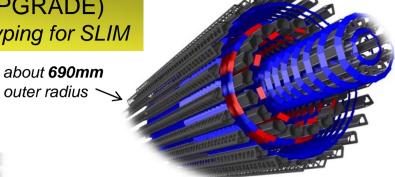
attached to one "longeron"

PIXEL project (Atlas UPGRADE) Design, Simulations, Prototyping for SLIM

People involved in 2015...

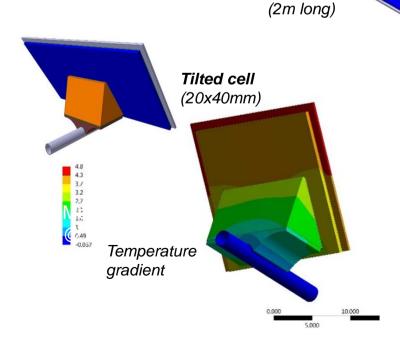
Sébastien, Maarten, Coralie and Franck (small fraction)

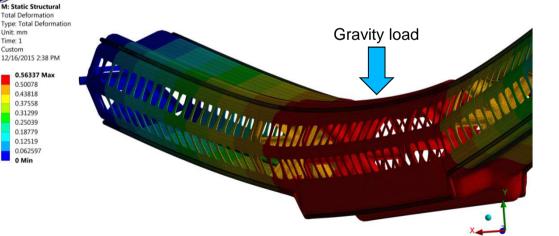
Longeron



Adaptive design for 5 layers (PIXELS) 2x2 module "lines"

- Good stability and thermal performances
- High degree of modularity
- 20 % to 30 % module saving (wrt barrel layout)



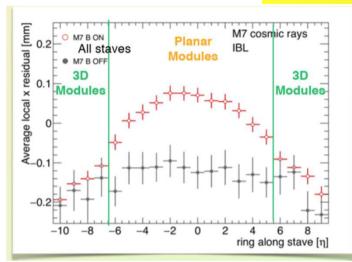


Design and simulation works leading to PROTOTYPING

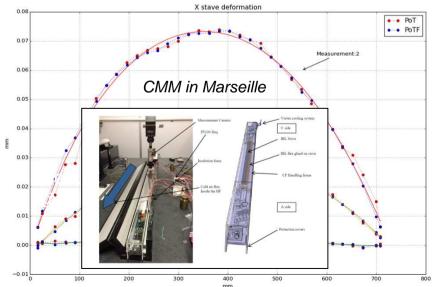


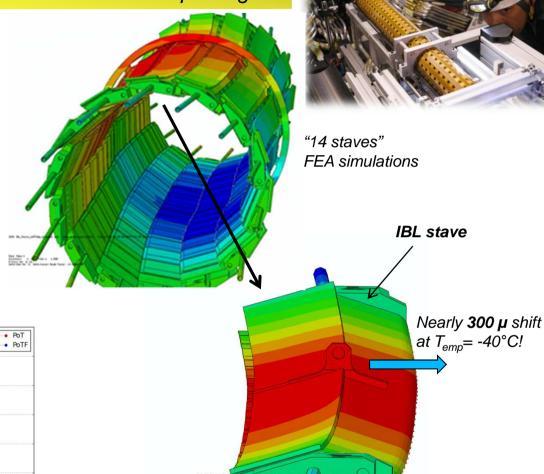
IBL project (after the first collisions...)

Tests and Simulations of the IBL package...



CMM (metrology) in Marseille (CPPM) to fit with simulations(DPNC) and real tracks (CERN)



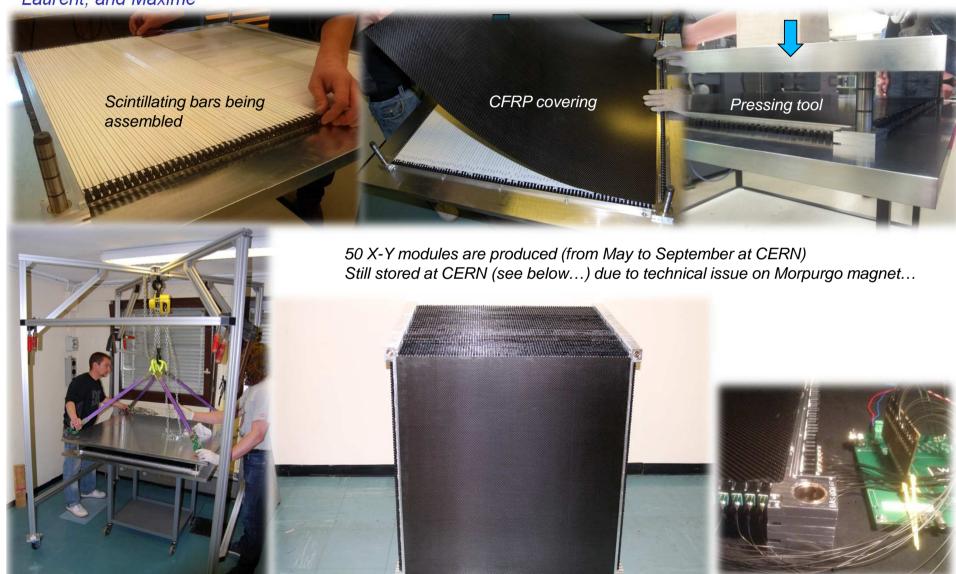


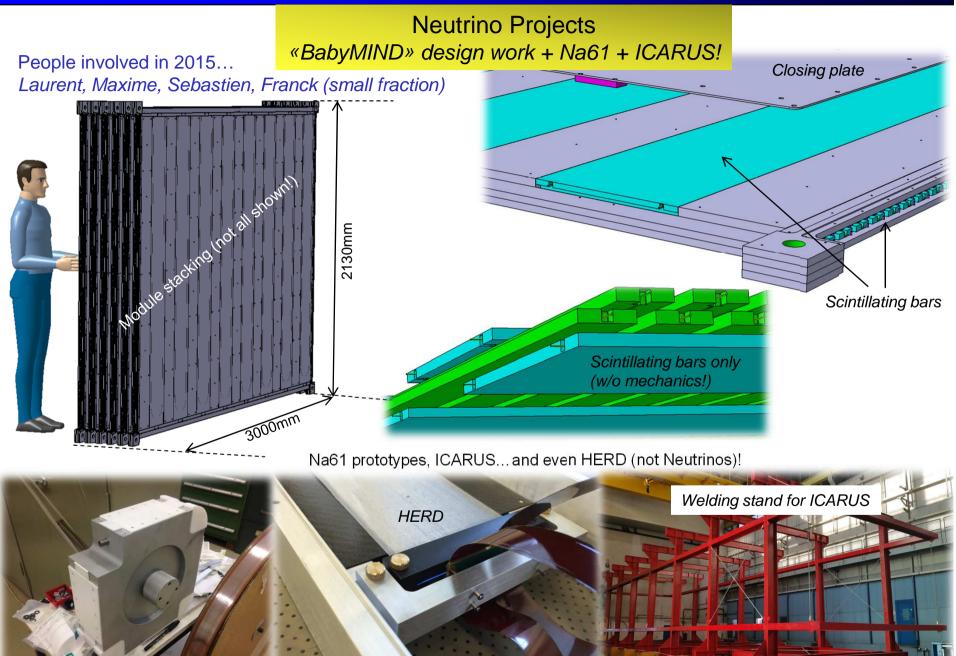
<u>Key lessons</u>: never underestimate the "capacities" of simulation (and tests)... provided we trust it!

People involved in 2015... Laurent, and Maxime

Neutrino Projects TASD modules production

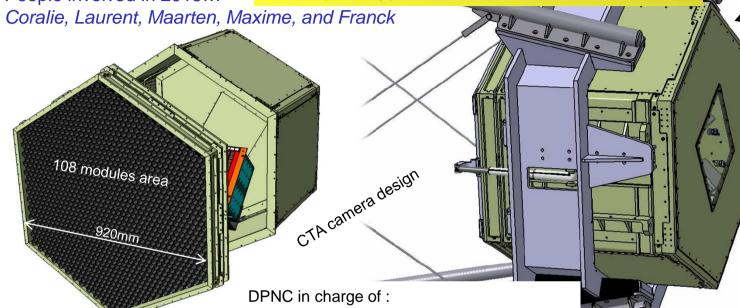






CTA Camera

People involved in 2015... First prototypes + 108 modules assembled



- Camera design, fabrication and installation

- 108 SiPMT modules

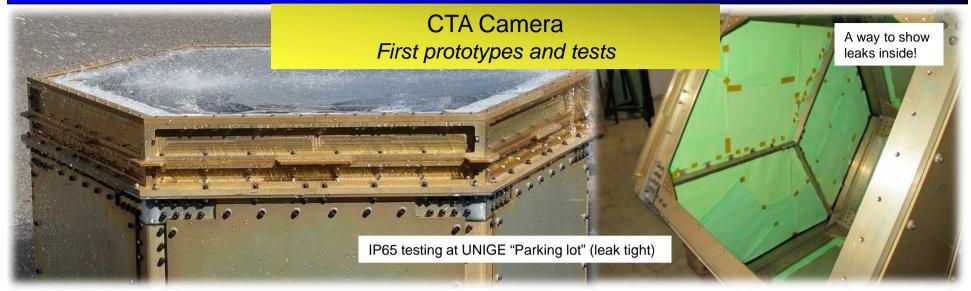
- Camera support redesign



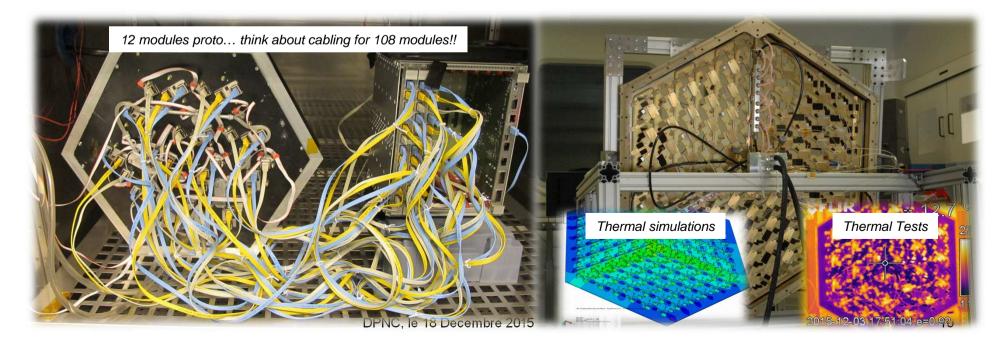
Simulation / vibrations (modal shape)

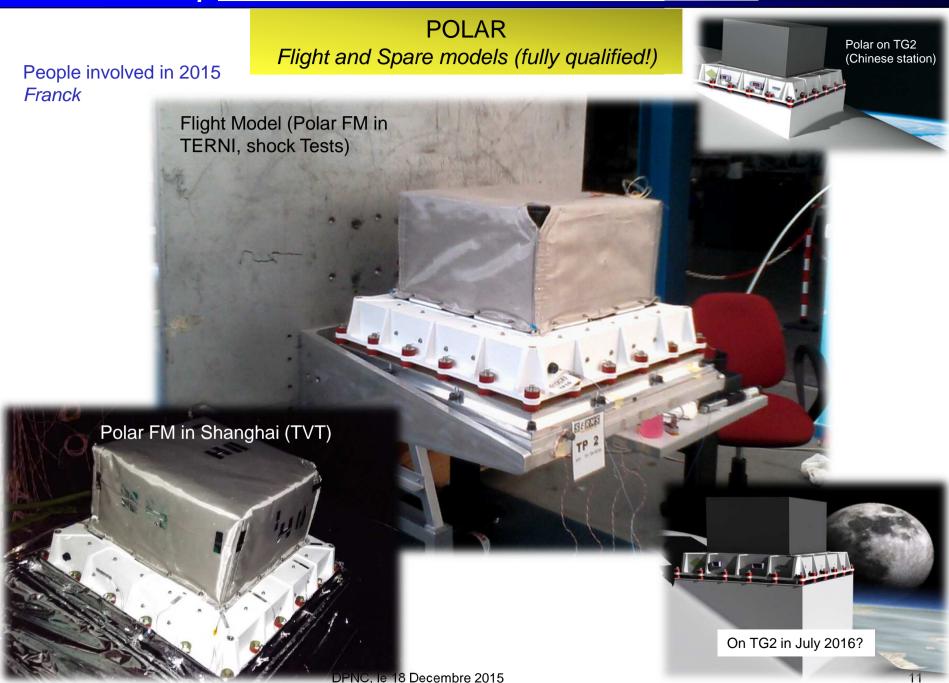
Telescope in Cracow

Mechanics Group _____CTA in 2015



Lots of prototype works successfully assembled & tested (still a lot ahead of us... cooling, camera shutter, and Insertion...)

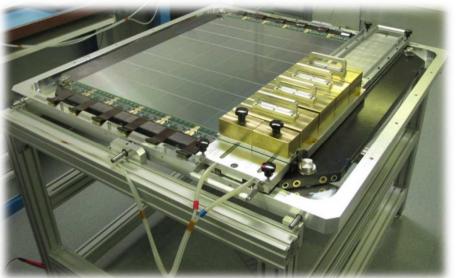




Dampe_STK Fabrication & Qualification for flight

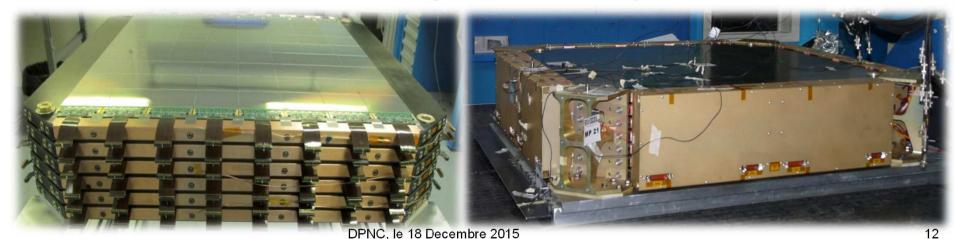
People involved in 2015

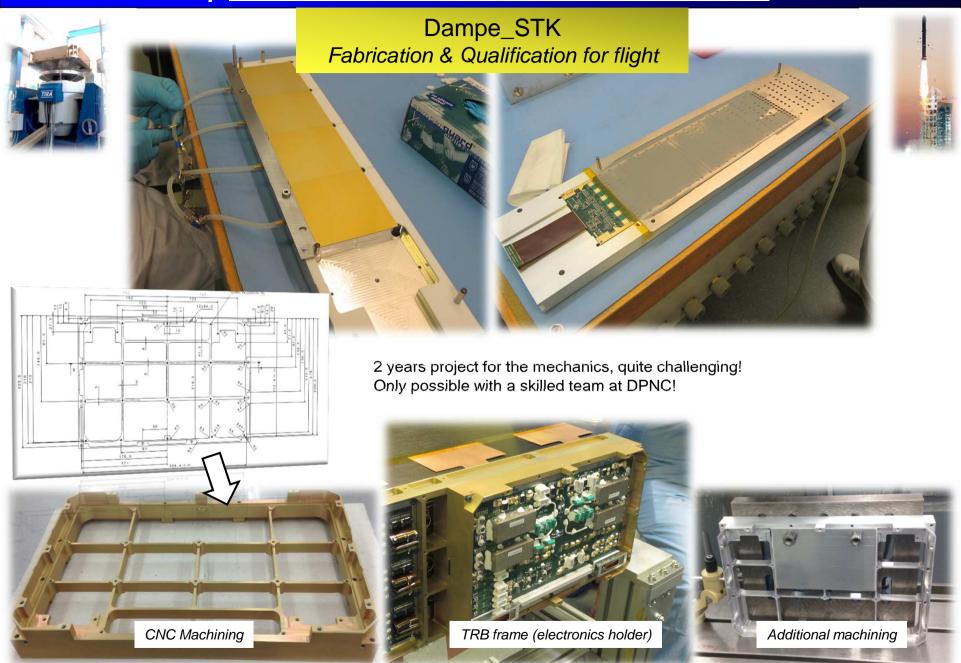
Coralie, Laurent, Maarten, Maxime, and Franck





- 50% of silicon ladder fabrications
- Ladder assembly onto mechanics
- Mechanical design, Fabrication and Assembly





- Various projects in quite different fields (CTA, Dampe, PIXEL, Neutrinos)
- Lots of activities ... BUT some KEY resources are leaving the group!!
- This is not without huge consequences... let's think about it soon...

Thanks again and Merry Christmas!