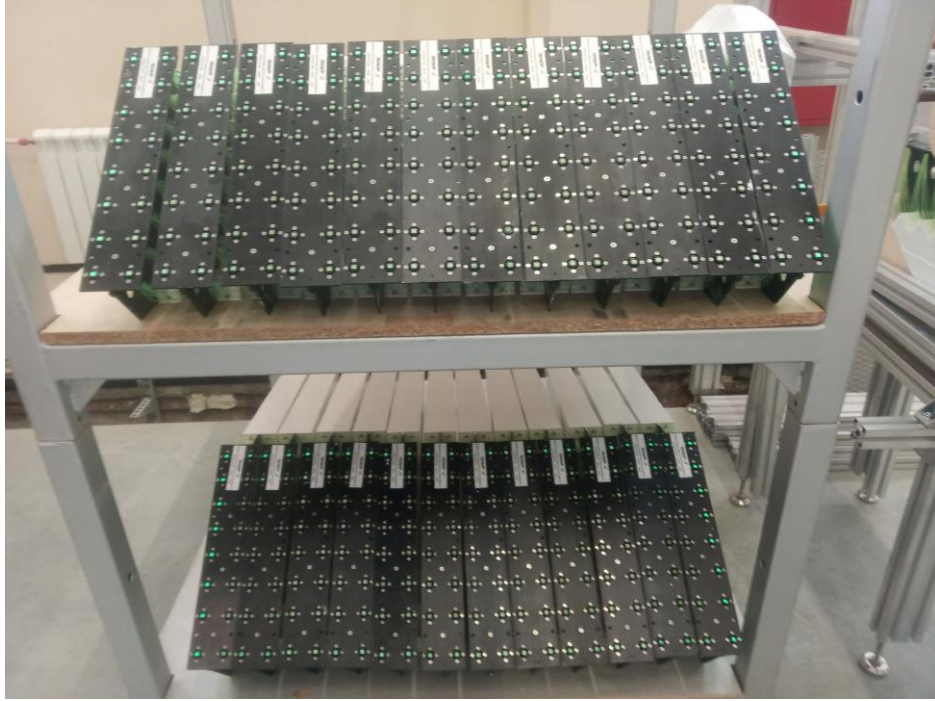


ECal status

Dubna
October 12 2021



About 400 modules are produced
400 more modules will be produced
before spring 2021



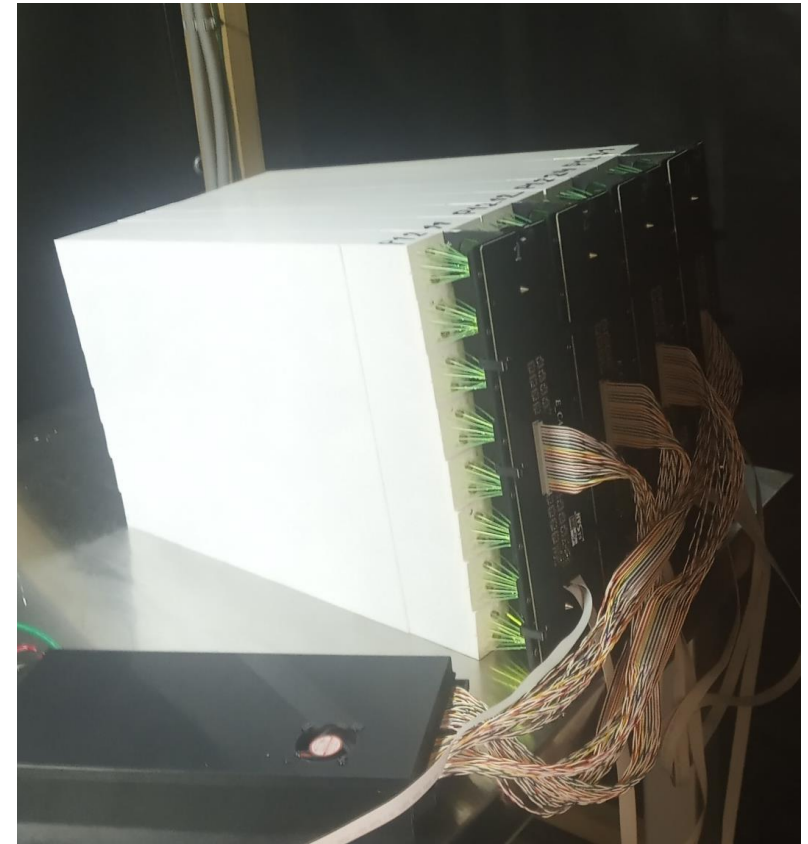
Rate of modules production is not
a problem any more

Cosmic tests area



Test area is ready for the mass tests of modules by means of cosmic muons

Front-End electronics is produced and under test now



About 300 channels are tested.
No dead channels found

Slipway 1

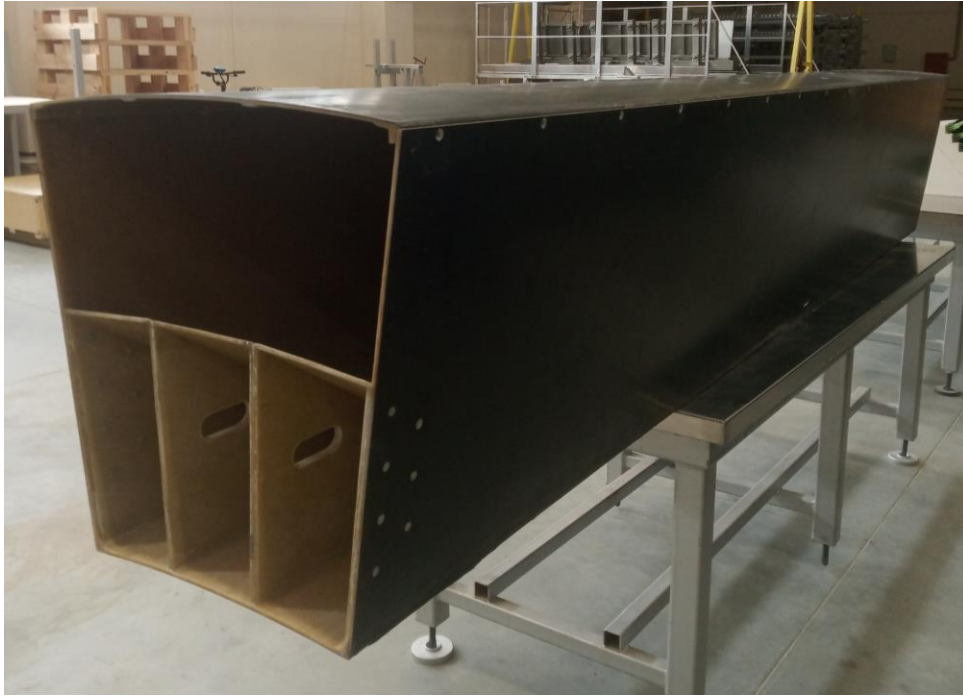


Slipway 2

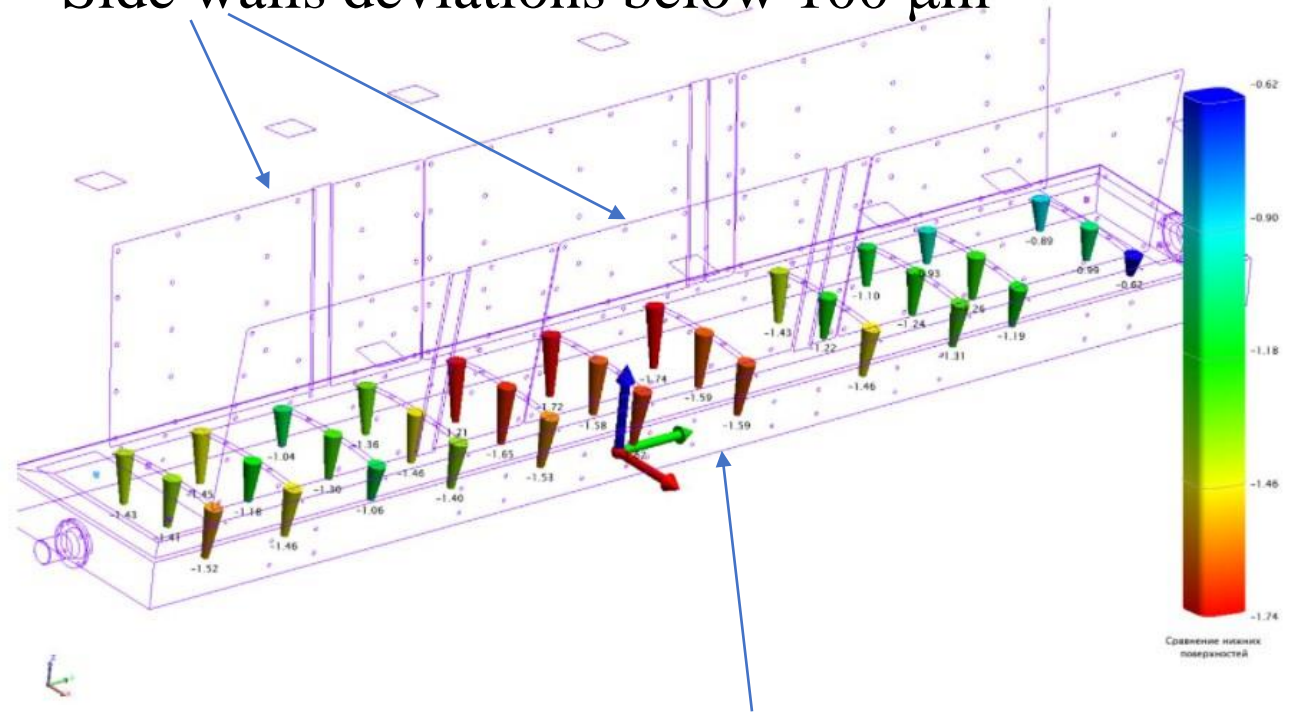


Sectors assembling procedure is a critical point now. This procedure is under development

We plan assembling of the first ECal sector starts in October



Side walls deviations below 100 μm



Bottom wall in the center about 0.5 mm lower

First half-sector container is produced and is under study now. Some minimal corrections will be done in the design and mass production starts in November

Containers in production
Smooth delivery - 5 per month

Design and production starts in November

Enough modules for 12 sectors

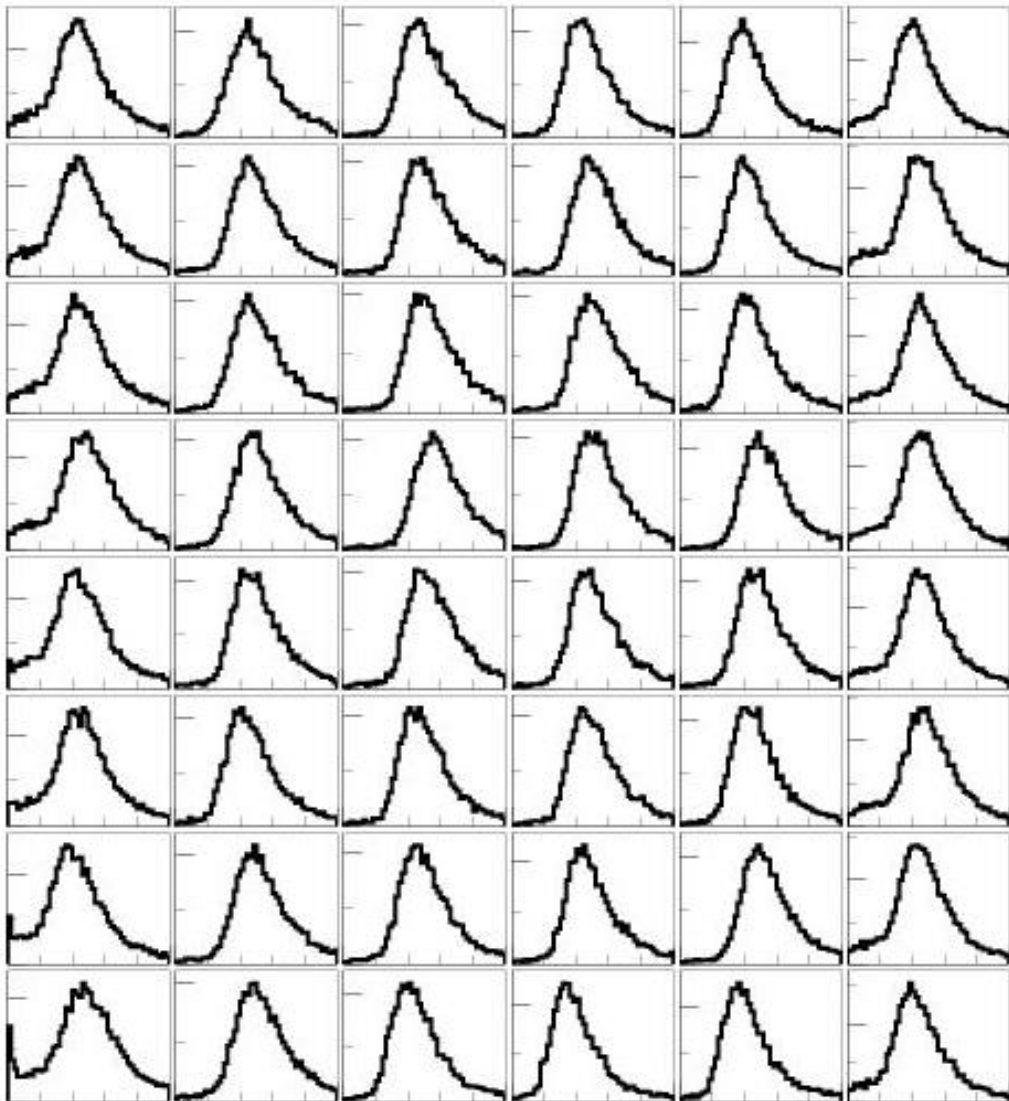
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Modules production in Russia	400					800									
Modules production in China															800
Installation machine															
Containers production															
Sectors assembling	TESTS			MASS PRODUCTION											
Installation															

Critical stage – development of procedure

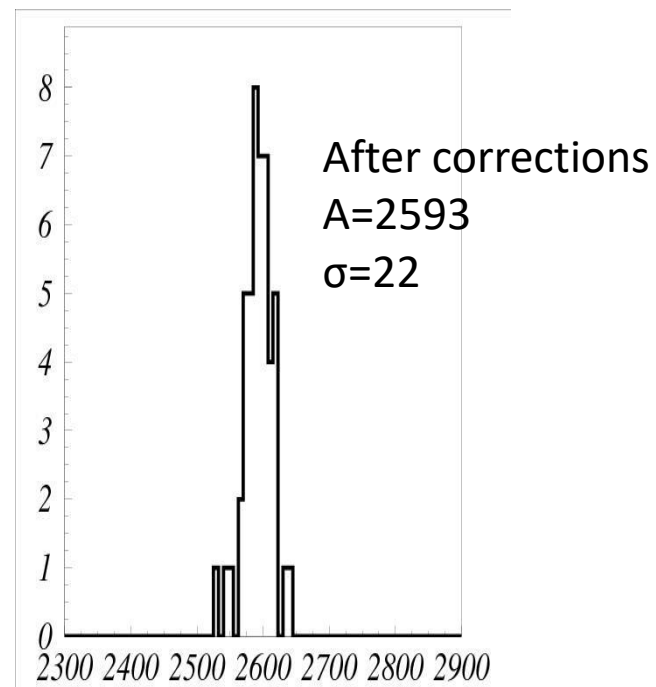
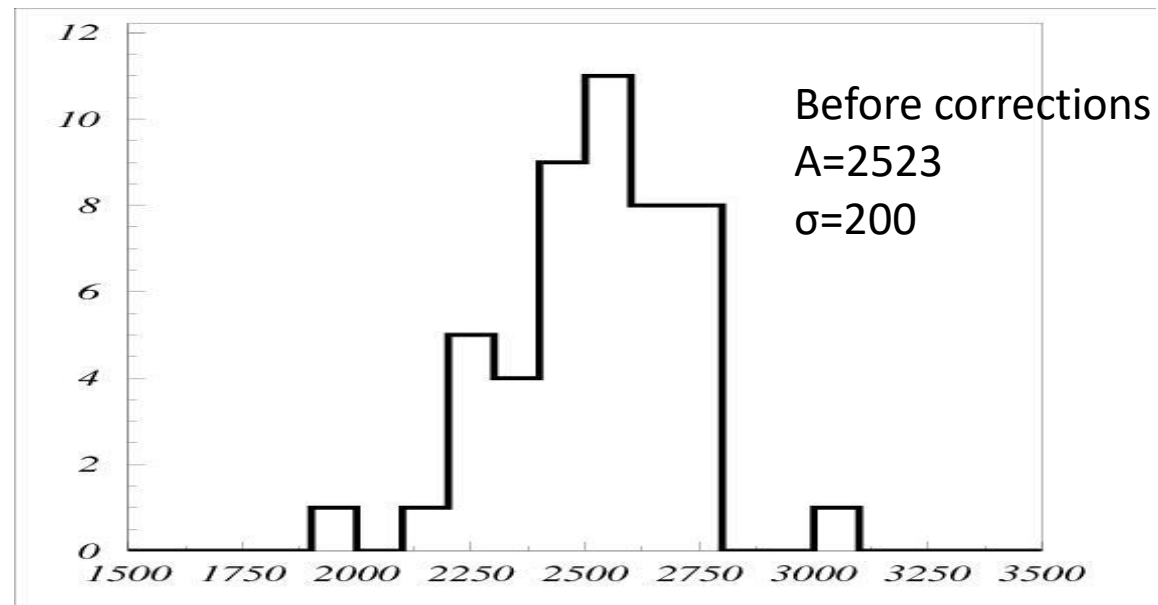
Need of manpower (technicians)

Study of calibration procedure

μ

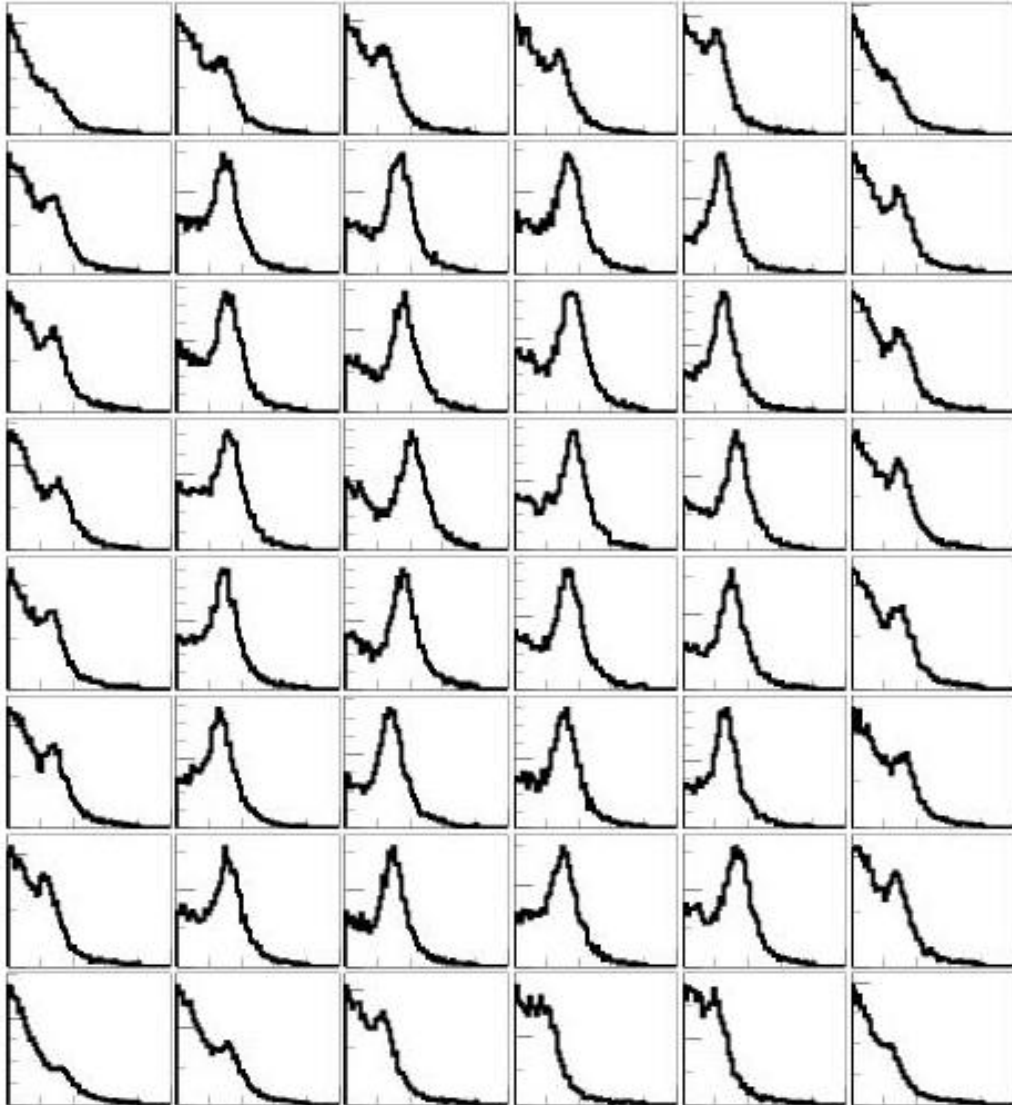


Across towers

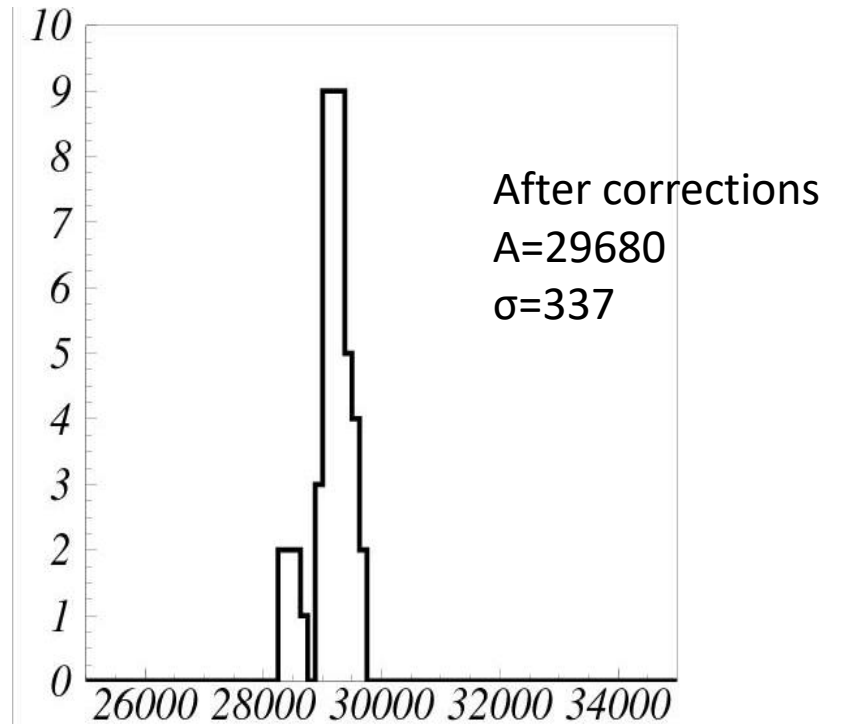
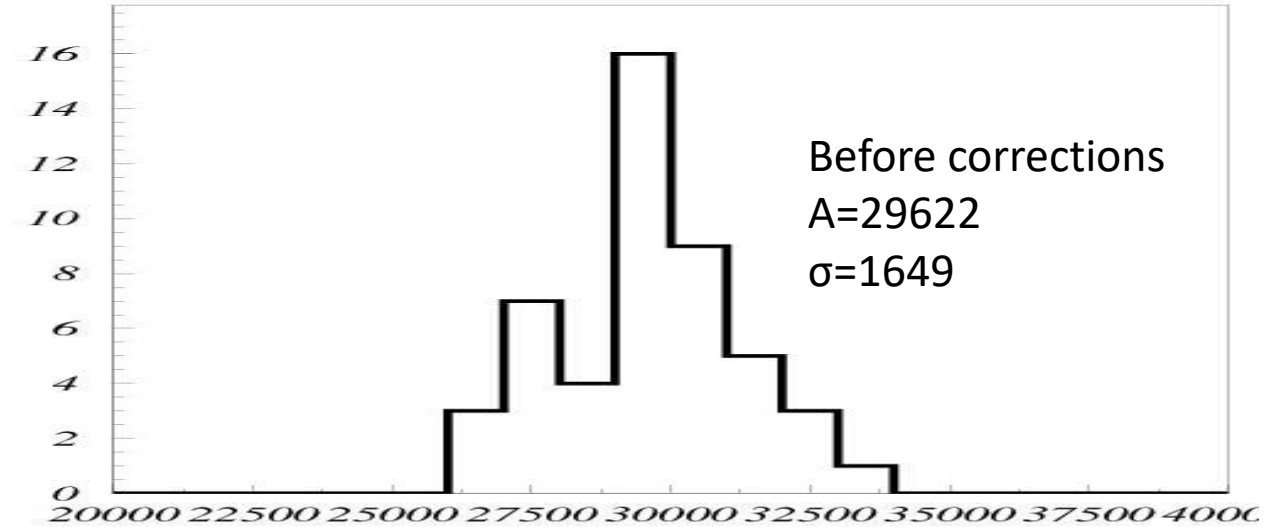


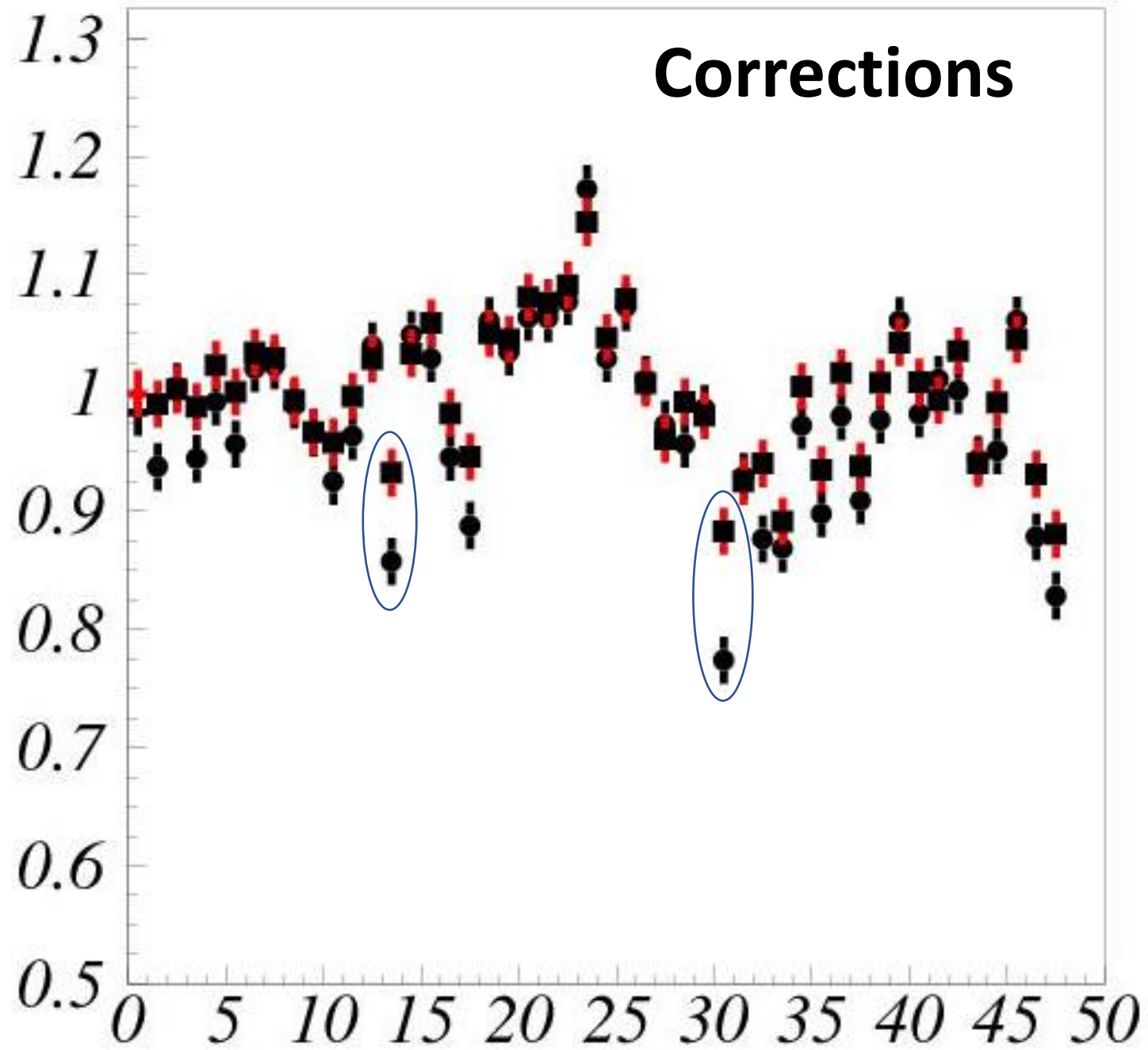
Study of calibration procedure

⊙ μ

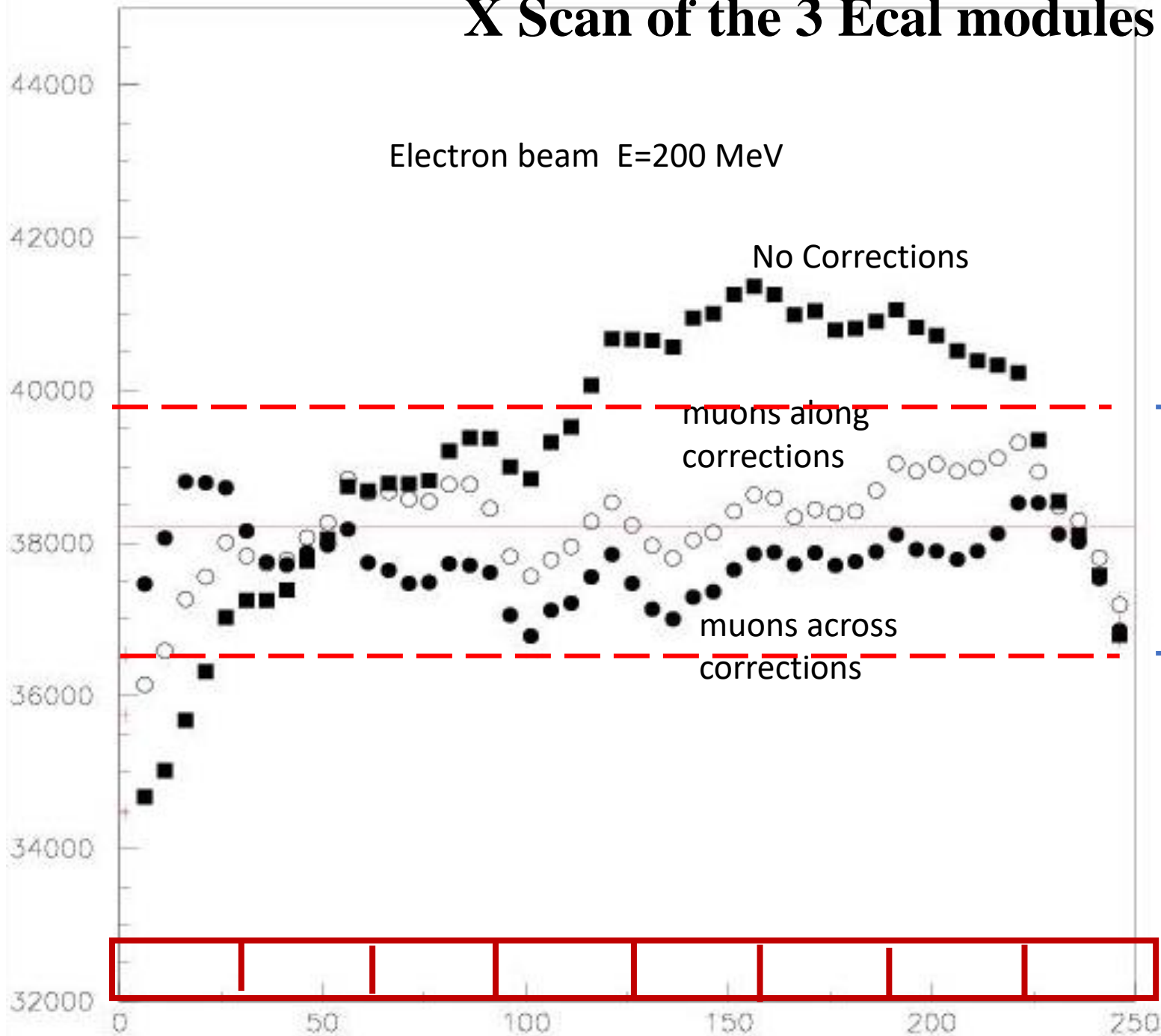


Along tower





X Scan of the 3 Ecal modules



Transverse muons can be used for the arbitrary calibration. Such calibration reproduces electron beam calibration

X mm

Thank you for the attention!