

Slide 1

Report from Moscow meeting

TALKS:

Status and plan for HCAL JetMet simulation
and software – S.Kunori

Using tracker for correction energy of calorimeter
objects – O.Kodolova

Status and plans for RDMS calibration and
Monitoring working group – O.Kodolova

HF characteristics versus width of the
non-instrumented gap– V.Kolosov

Mathematical simulation of the CMS HF
calibration with radioactive source– A.Yershov

Heavy Ion study with CMS HF calorimeter–
S.Petrouchanko

Radiation damages in HE calorimeter–
A.Krokhotine, V.Palichik, V.Gavrilov, O.Kodolova

Interface of calibration DB to ORCA–
A.Oulianov

Shuichi presented the modern state of HCAL JetMet simulations including available software.

Olga made review on using tracker for jet energy reconstruction and proposed how to use Dan's algo in jet environment.

Victor told on updated geometry of HF and on influence of the size of non-instrumental gap from (7–15mm) on HF signal for 1 TeV jet.

The first variant of interface to calibration DB in ORCA is created by Alexei.

Serguei told on possibility to use HF for different heavy ion tasks.

Slide 2

Important results concerning radiation damages and recalibration of HF were presented by Alexandre.

Dose in HF will be up to 20 Mrad/year. In spite of the radiation hardness of quartz fibers signal will be deteriorating.

At current setup estimated losses are up to 25% for 10 years operation.

monitoring and relatively frequent recalibration is necessary.

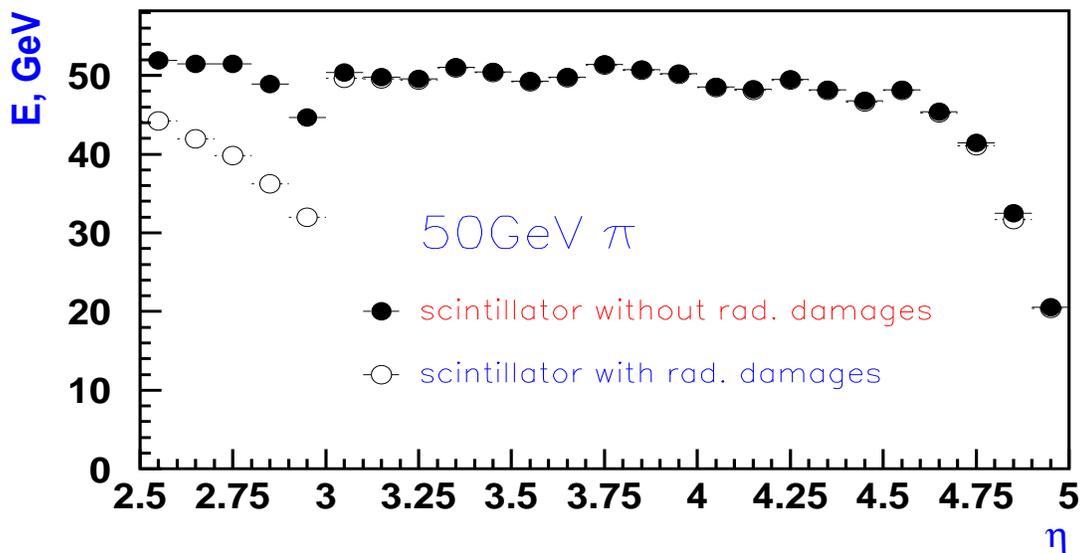
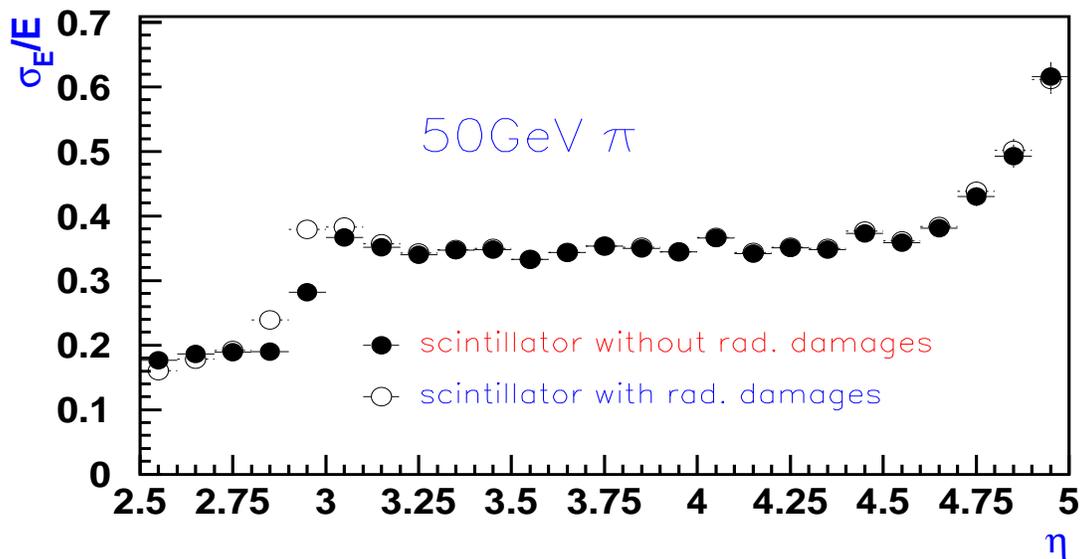
One of the possibilities:

Monitoring with pile-up

Recalibration with Co60 source (full chain was simulated taking into account absorber activation).
Result will be published as CMS NOTE.

Slide 3

First simulations of radiation damages in HE for 10 years operation have been carried out by Andrei and Vladimir.



Resolution for 50 GeV pion and reconstructed energy depending on eta

Meeting issues

Common internal note on calibration should be ready till september.

Parts, which will be included:

HF simulation study.

HF,HE radiation damages and recalibration.

Jet energy corrections without tracker and maybe with also.

gamma+jet channel for calibration.

Interface to calibration DB in ORCA.

Calibration for HI stuff.