

Run3 EMC trigger

mission = improve efficiency and rejection power

Dead channels

We masked about 25% of channels at run2.

It wasn't the problem of individual PMT channel.

SM connection for overlapped trigger

There was no SM connection in PbSc at run2.

Which is the better solution?

Gain variation

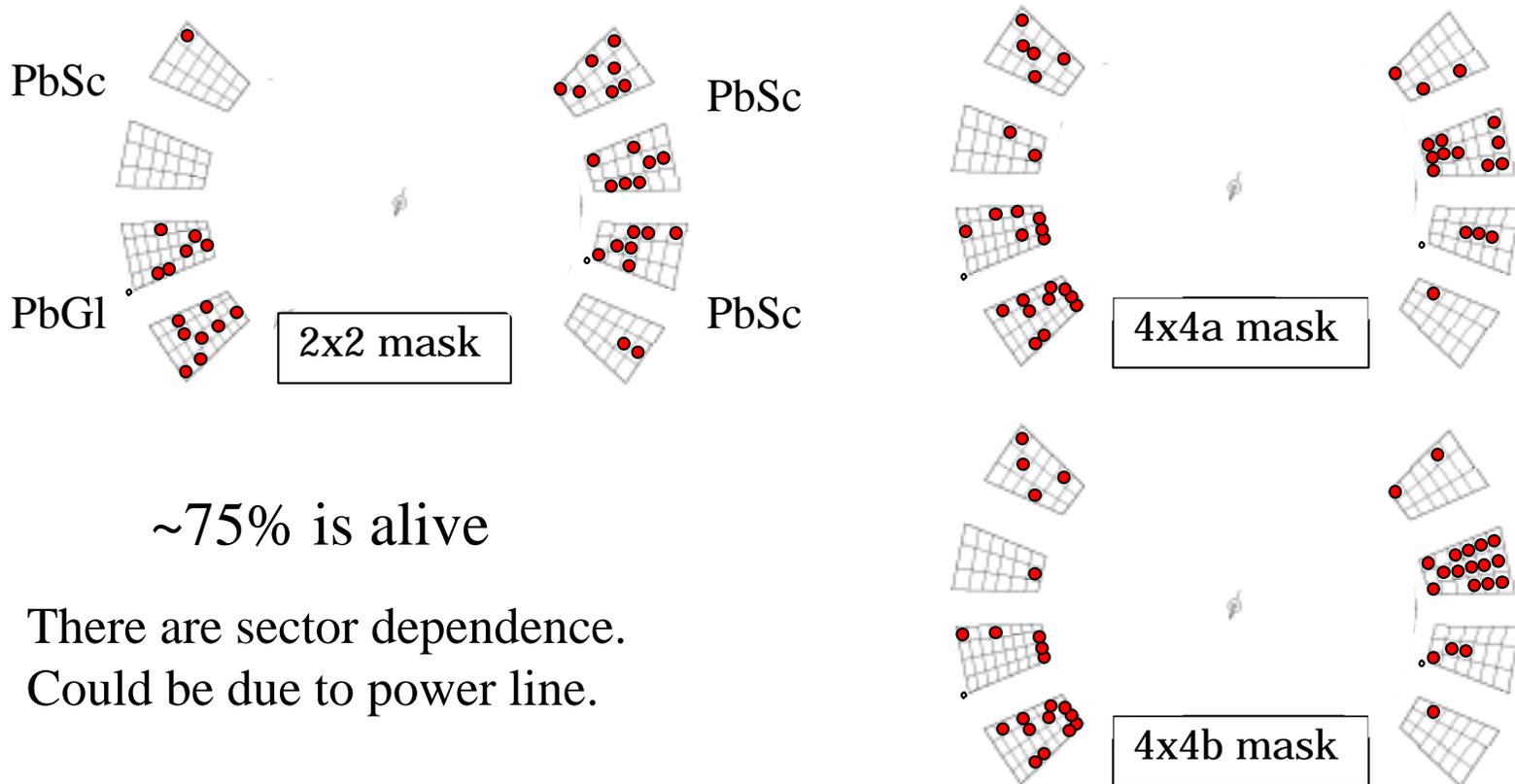
There is some very low gain channels. They decided the trigger turn on curve.

Trick of threshold setting (Matthias's idea)

2 trigger modes combination could have better performance.

Dead channels

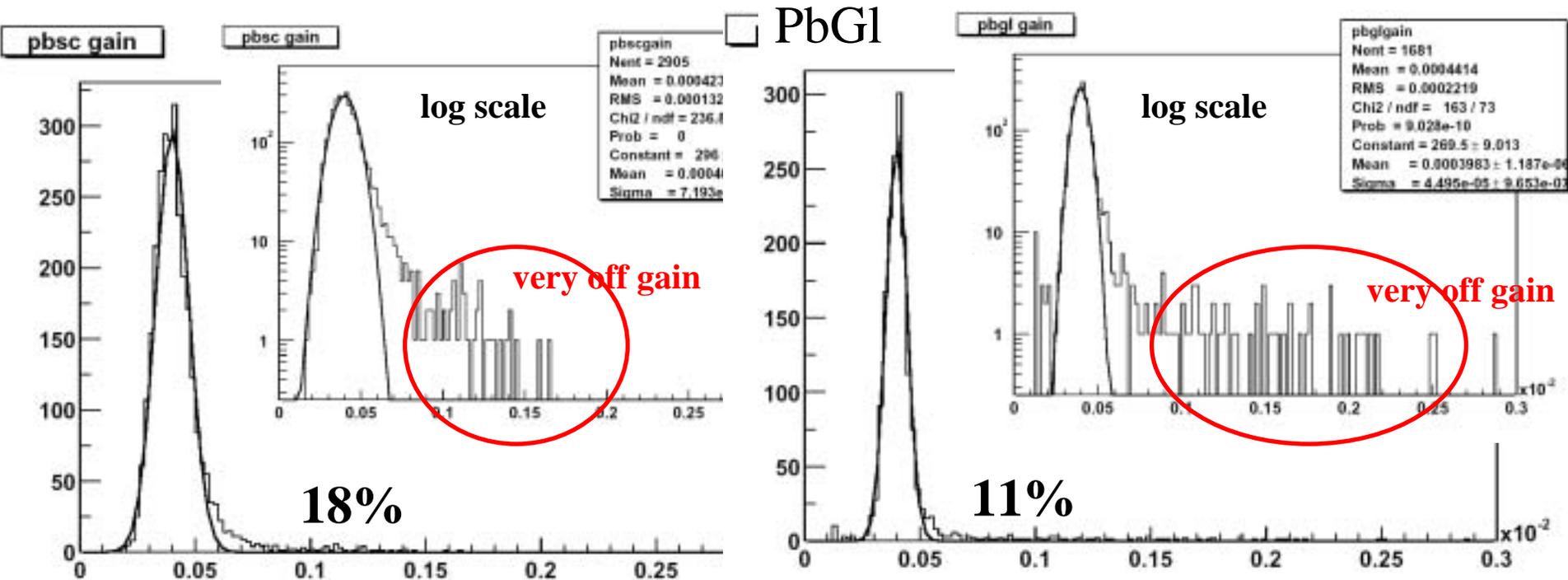
Unit= super module (SM)
144 PMTs in a SM



~75% is alive

There are sector dependence.
Could be due to power line.

PMT gain variation



PbG1 has better shape than PbSc.

Both of them have some very off gain PMTs.

Plan

Dead channels

We masked about 25% of channels at run2.
It wasn't the problem of individual PMT channel.

No idea.
Go to the counting house.

SM connection for overlapped trigger

There was no SM connection in PbSc at run2.
Which is the better solution?

run2 data analysis.
efficiency of SM edge and
center. compare it to PbGl
case.

Gain variation

There is some very low gain channels.
They defined the trigger turn on curve.

Go to the counting house.
Ask Edouard and Hisa.

Trick of threshold setting

2 trigger modes combination could
have better performance.

run2 data analysis.
check correlation between modes