The ALICE AMORE SPD GUI

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The ALICE AMORE SPD GUI

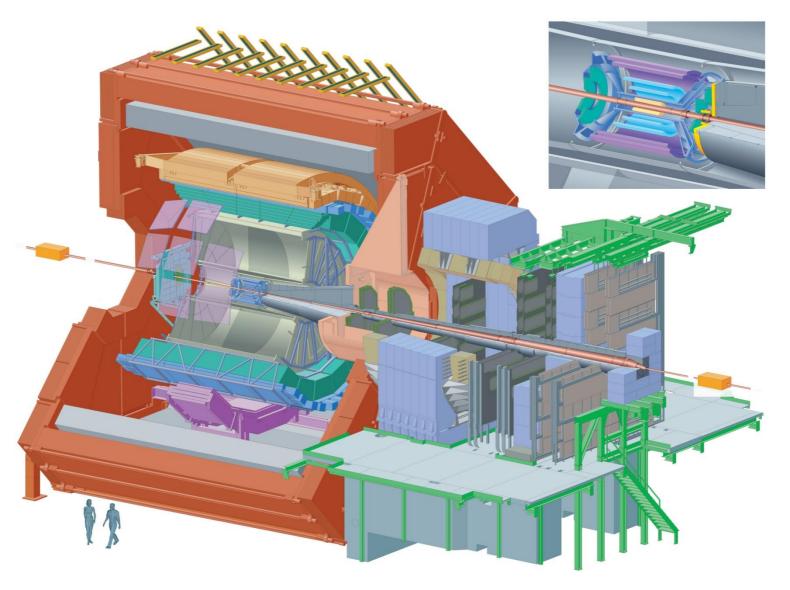
ALICE

A Large Ion Collider Experiment

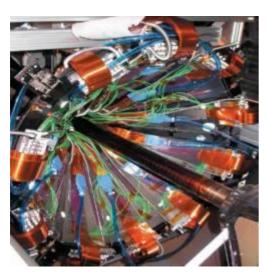
SPD

Silicon Pixel Detector

ALICE SPD



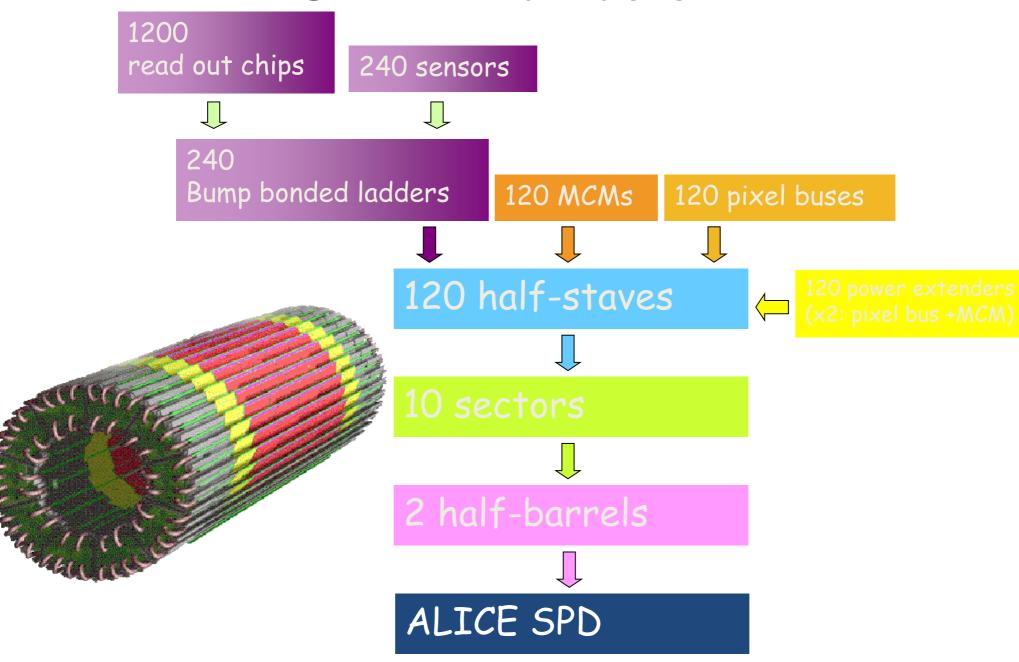
ALICE SPD







SPD in Numbers



The ALICE AMORE SPD GUI

ALICE

A Large Ion Collider Experiment

AMORE

Automatic MOnitoRing Environment

SPD

Silicon Pixel Detector

GUI

Graphical User Interface

Motivation

for switching from "SPD Mood" to "AMORE SPD"

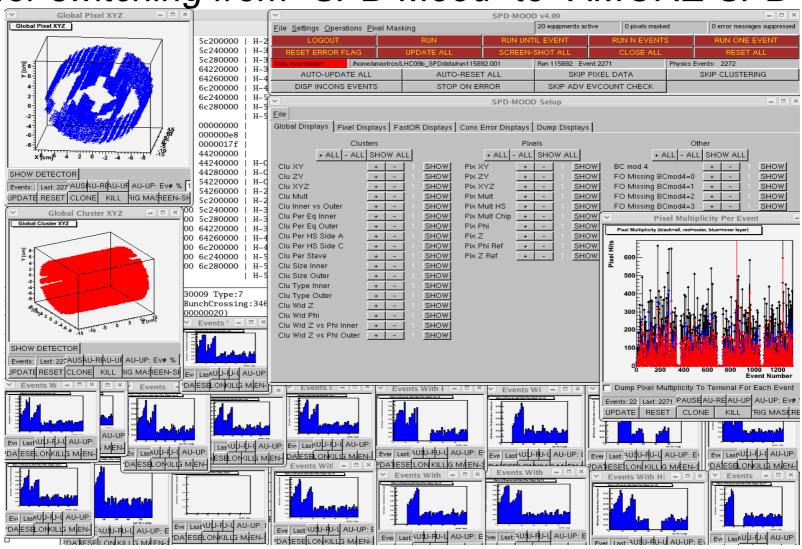
Amount of histograms

Problem: SPD Mood contains a lot (2000!) histograms.

Solution: Automatic checks, less histograms.

Motivation

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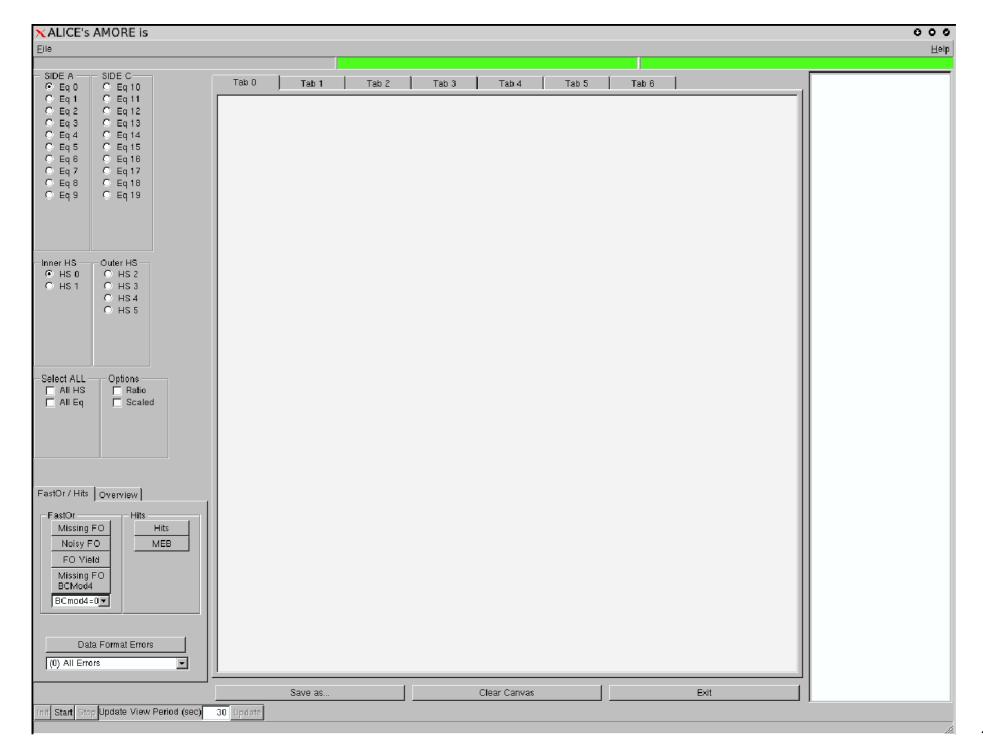
Amount of histograms

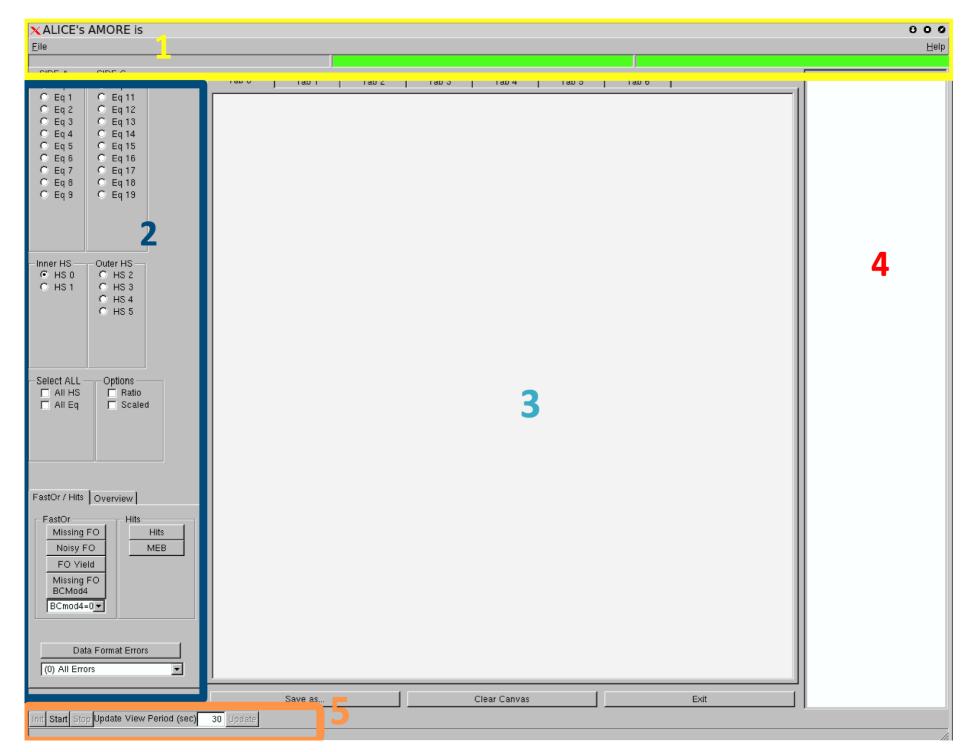
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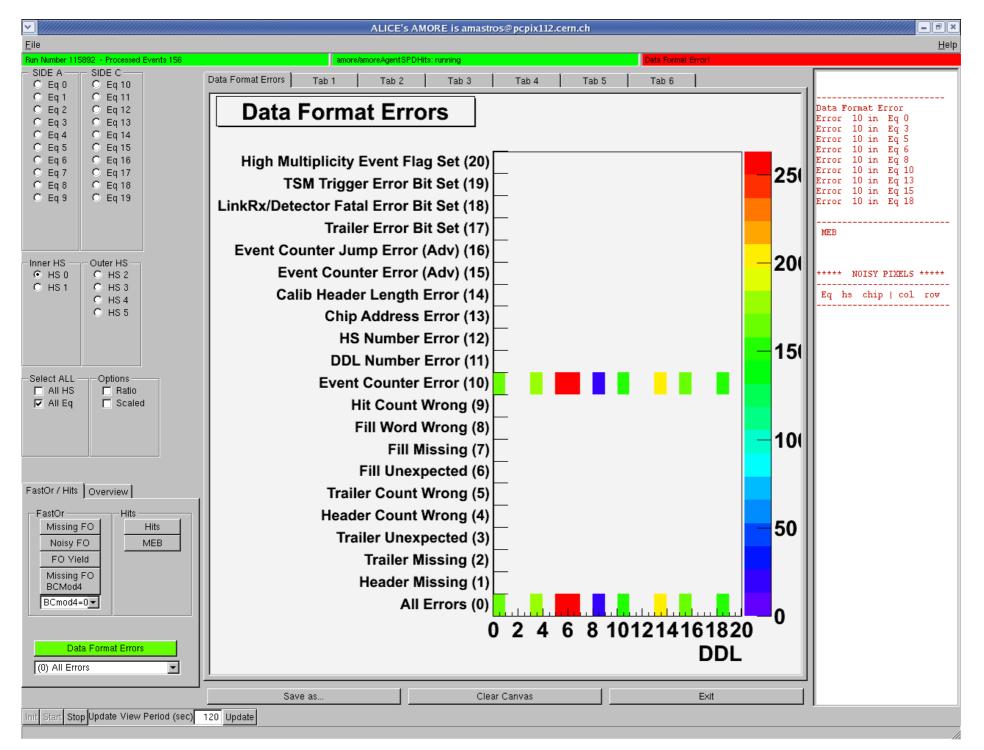
Solution: Automatic checks, less histograms.

Adjustability

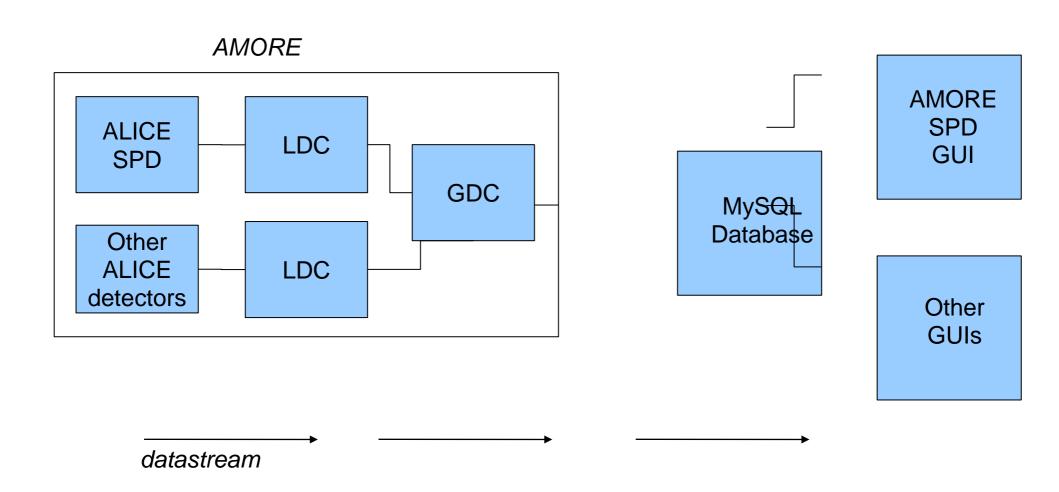
AMORE SPD is able to satisfy the requirements and it is easy to maintain.







Data flow



The Really Important Stuff: SPD Songs

When you are in shift you are bound to encounter problems, errors and other natural disasters. If that is the case, do not despair, but rather sing the following songs aloud: the problems will still be there but you'll earn a lot of respect-points from the other detectors (the louder the better).

La Marcia del Cooling (ITA)

Chorus: e riempilo, riempilo, riempilo (x3) tutto il tank!

L'abbiam riempito tutto,

E non gli ha fatto male.

Il cooling funziona

e domani puo' rannare!

L'Inno del SPD (ITA)

L'Esspiddi sta ... senza corente, ma quando ranna' ... il DAQ ne risente. ALICE nun fa' ... la stupida sta sera, damme na mano ... a fa' fini' sto scift!

II Grande Fascio (ITA)

Trema,

tutto l'accelleratore

Dalla Fortezza della Scienza arriva

Con i suoi grassi tevatroni, il fascio!

ad ALICE, il fascio!

ad ALICE, il fascio!

Vola.

Si tuffa da Mevrin diu' in nicchiata

When you are in shift you are bound to encounter problems, errors and other natural disasters. If that is the case, do not despair, but rather sing the following songs aloud.

The problems will still be there, but you'll earn a lot of respect-points from the other detectors.

(the louder the better)

Conclusion

Goal of my Summer Student project is to improve the data monitoring software of the ALICE SPD.

This involves programming, working with the shifters and keeping track of the physics requirements.

Most of the improvements have now been implemented.

Further reading

twiki.cern.ch/twiki/bin/view/AliceSPD

aliceinfo.cern.ch/SPD

alice-logbook.cern.ch/ (CERN account required)