

Instruction for PHOS On Call

Version Y.SIBIRYAK, S. NIKOLAEV - 22.08.2011

The PHOS On Call should be reachable by phone 24 h per day. He/she should be able to reach Point 2 within 30 min after a call. People who are On Call should be registered as “phos experts” in PVSS. This is necessary for being able to turn on and off the HV and LV. Here are some points to follow:

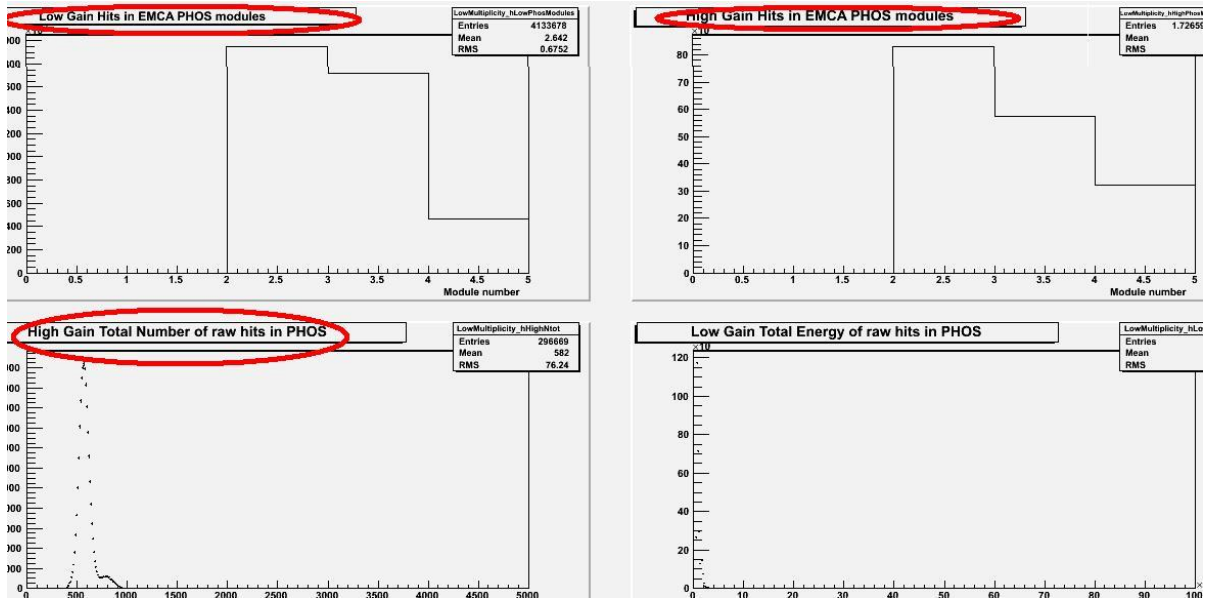
1. Be aware of what is going on at Point 2 and what the plans are for PHOS. Follow the e-mails on the **alice-p2info** mailing list, stay in contact with the PHOS Run Coordinator and the ALICE shift leader etc.

2. Make sure that PHOS is **READY** to take part in global runs when it should.

3. Monitor the quality of the data. Use the logbook to check the PHOS **event size**. It can be found by clicking on a run in the logbook and then clicking on “**Run Statistics**” The event size (in pp collisions) should be between 11 and 17 kByte per event. Deviations from this indicate problems. Either noise (too large event size) or that some part of PHOS are not read out (too small event size). One can see the amount of data recorded by each LDC by clicking on “**LDC statistics**”. Also check the **DQM plots** in the logbook. These can be found by first clicking on a run and then clicking DQM. An example plot is shown below. There should be entries for all 3 modules (2-4) in the first two histograms. The number of hits is normally largest in Module 2 and smallest in Module 4. The following 6 plots should all have entries. The mean and RMS should be compatible with the example below. The DQM plots are monitored online by the DQM shifter, but an extra cross check should be done. These checks should be done at least once per day when there is Physics data taking. There are also **QA plots in HLT** that can be consulted during a run. The **Busy Time** can be seen **during of Run only** on <http://alidcscom188.cern.ch/> from **alidcscom001** (from outside of CERN through **cernts.cern.ch**) on “Global run BUSY status” page. For PHOS busy time should be ~1msec.

4. Take PEDESTAL and LED runs when needed.

5. It is recommended that each On Call subscribes to the **phos-alarm@cern.ch** mailing list. This can be done from here <http://www.cern.ch/groups>. You will then get an e-mail when a software or hardware interlock is triggered. The samples of the DQM Plots for PHOS from the logbook for a good pp run (August 2011):



6. It is recommended that On Call shifter make PHOS monitoring by the following Web-shape Check List (updated in August-2011):
Each point of the list should be checked carefully one by one and marked by “OK” or actual values in case of problems.

PHOS check list

| On-call shifter | | | | | Date | | | |
|--|-----------------------|---------------------------|---------------------------------|----|---|-------------------------------------|--|---------------------------|
| C.Plant (level ≥-68%,Ready Int. √). Cool. water pr.-550 | Alarms, Interlocks | Busy time (~ 1msec) | AVG EVT size (~11 – 17kb) | | LDC stat. subevent/ /total-100/90/80 /50/40/45 % | DQM peak position (~500-1000) | Last PHYS- RUN with Quality Flag | RUN type |
| | | | | | | | | |
| | | MODULE 2 | | | MODULE 3 | | MODULE 4 | |
| Matrix temperature (03.2011 – calibration time) | | -24.46; -25.01; -25.11 | | | -27.31; -21.19 | | | -25.04; -25.01; -25.05 |
| Matrix humidity (%) | | 43.2; 47.6; 26.9 | | | 44.8; 43.7; 35.1 | | | 39.7; 27.5 |
| FEE temperature (+16°C) | | 15.88 | | | 15.50 | | | 13.29 |
| FEE humidity (%) | | 7.7; 4.8 | | | 13.0; 0.5 (?) | | | 6.2; 5.9 |
| Wiener temperature °C | | Wiener 193 | | | Wiener 191 | | Wiener 190 | |
| Channel 0; 2 | | 19; 22 | | | 17; 20 | | 19; 19 | |
| Channel 4; 6 | | 24; 19 | | | 21; 17 | | 22; 19 | |
| Channel 8 | | 24 | | | 21 | | 21 | |
| Wiener 195 | Temper. °C | Channel 0 | | 20 | Channel 4 | 17 | Channel 2 | 20 |
| | Current (A) | | | 15 | | 21 | | 13 |
| LV current (A) | | | | | | | | |
| Channel 0; 2 | | 23.35; 49.8 | | | 17.9; 32.6 | | 25.4; 41.9 | |
| Channel 4; 6 | | 65.6; 11.9 | | | 49.27; 7.8 | | 56.02; 10.22 | |
| Channel 8 | | 45.6 | | | 39.1 | | 39.6 | |
| HV current (mA) | | | | | | | | |
| Channel 0; 1 | | 8.11; 8.11 | | | 7.94; 0 | | 0; 7.7 | |
| Channel 2; 3 | | 8.25; 8.1 | | | 7.91; 8.2 | | 7.6; 7.7 | |
| Channel 4; 5 | | 8.3; 8.3 | | | 0; 0 | | 7.1; 7.6 | |
| Channel 6; 7 | | 7.8; 9.4 | | | 8.2; 8.01 | | 7.5; 6.7 | |
| Comments: | | | | | | | | |

The blank Check list can be found on PHOS web site: <https://aliceinfo.cern.ch/PHOS/> on the Run coordination/PHOS On-call shift page. After filling of the Check-list it should be sent to current SRC for publication on the PHOS web site.

7. Set Run Quality Flags (RQF). The appropriate manual see below.

The marking of Run Quality Flags (RQF).

The marking of a Run Quality Flag (RQF) is duty of the Oncall shifter. The RQF must be set for 24 hours after the run was stopped. The DQM shifters check the list of the runs started during the last 48 hours and call the Oncall expert if they have found a run without RQF which is older than 24 hours.

The following runs should be marked with RQF:

- Only PHYSICS runs with beam (no TECHNICAL, no STANDALONE, no COSMIC runs).
- Only runs with duration longer than 10 minutes.

How to mark RQF.

I. Set filters.

- Find out the number of the last PHYSICS Run with RQF - in the PHOS check-list of the previous day, at the cell “Last PHYS-RUN with Quality Flag”.

PHOS check list

| On-call shifter | Sergey NIKOLAEV | | | Date | 09.08.2011 | | |
|---|-----------------------|------------------------|---------------------------------|---|-------------------------------------|--|---------------------|
| C.Plant (level ?~68%.Ready Int.v). Cool. water pr.~550 | Alarms, Interlocks | Busy time (~ 1msec) | AVG-EVT size (~11 – 17kb) | LDC stat. subevent/ /total~100/90/80 /50/40/45 % | DQM peak position (~500-1000) | Last PHYS- RUN with Quality Flag | RUN type |
| OK | NO | OK | 16.1 kb | reasonable | 615.8 double | 158793 | Physics_1 158777 |
| MODULE 2 | | | | MODULE 3 | | MODULE 4 | |

- Enter the ALICE Logbook (never use Internet Explorer). Go to “RUNS” → “Statistics”.

ALICE Electronic Logbook v1.58
Welcome Serguei Nikolaev (PH/UA1)

Logbook ▾ **Runs ▾** Fills ▾ Actions ▾ Links ▾ Logout

Statistics
Detector Calibration
Big Screen View

Page Browsing
1-20 of 29900 (Page 1 of 1495)

Local filters
Class: HUMAN

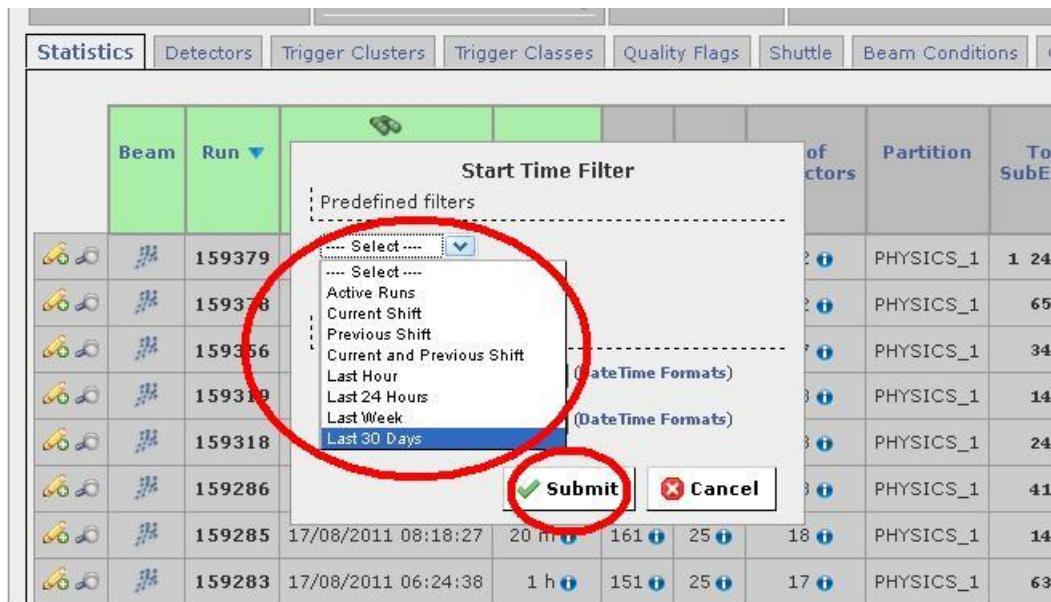
View mode
Compact

Log Entries Files Overview

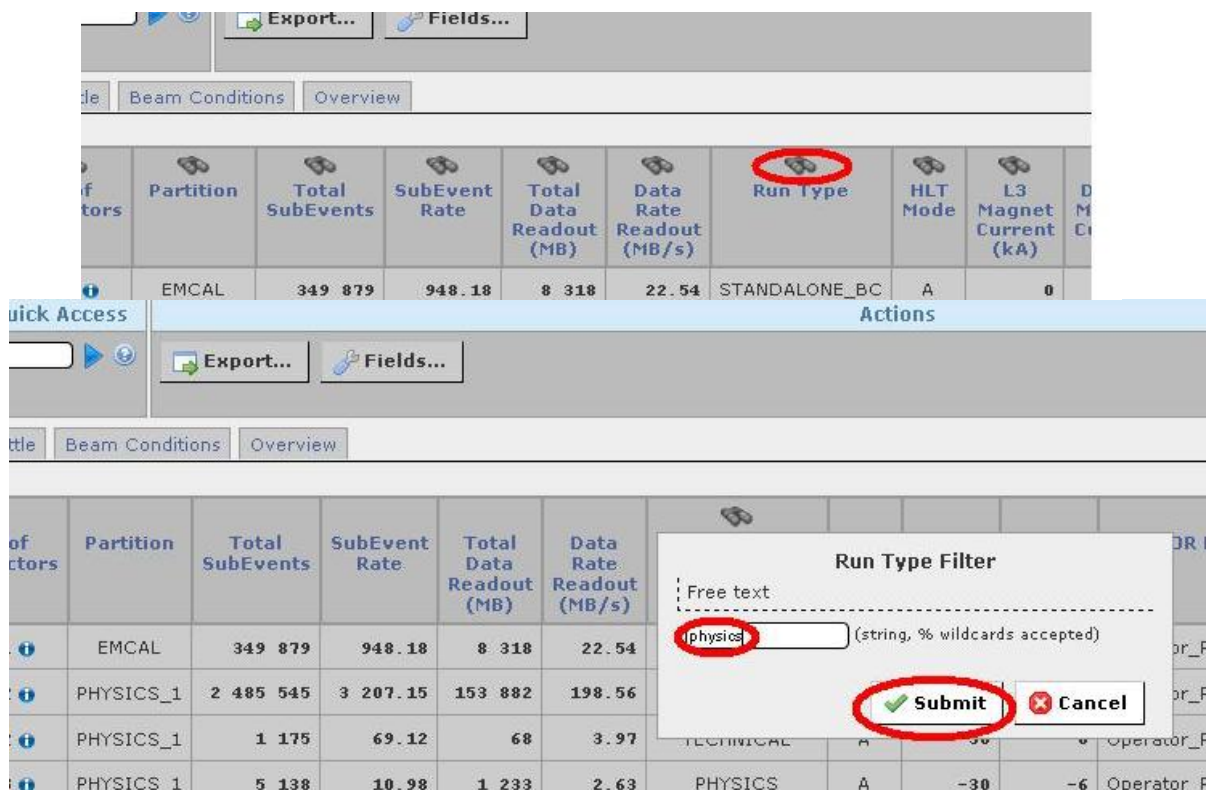
| | Created | Subsystem | Class | Type | Run | Author | Title | Log Entry |
|--|---------------------|------------------|-------|---------|--------|--------|-------|--------------|
| | 19/08/2011 12:05:40 | Multiple | HUMAN | DQM/QA | 159356 | Artur | Per | Special |
| | 19/08/2011 12:04:17 | Multiple | HUMAN | DQM/QA | 159378 | Artur | Per | No plots (Ru |
| | 19/08/2011 12:04:03 | Multiple | HUMAN | DQM/QA | 159379 | Artur | Per | No plots (Ru |
| | 19/08/2011 10:45:38 | TRD | HUMAN | GENERAL | | Ken | TOF | In this |
| | 19/08/2011 09:20:50 | Run Coordination | HUMAN | GENERAL | | Evgeny | LHC | - 11:45 |

- On the column “Start Time” click on the binocular badge and select time, compared with the time of the last Run with RQF - in the field “Start Time Filter”. Then do “Submit”. To be sure – select “Last 30 days” or “Last week”.

| Statistics | Detectors | Trigger Clusters | Trigger Classes | Quality Flags | Shuttle | Beam Conditions | | | |
|---|---|---|---|--|---|--|--|---|-----|
| Beam | Run ▼ | Start Time | Duration | # of LDCs | # of GDCs | # of Detectors | Partition | Subl | |
|  |  |  |  |  |  |  |  |  | |
|  |  | 159379 | 18/08/2011 03:29:00 | 3 h  | 59  | 25  | 12  | PHYSICS_1 | 1 2 |
|  |  | 159378 | 18/08/2011 01:51:16 | 2 h  | 59  | 25  | 12  | PHYSICS_1 | 6 |
|  |  | 159356 | 17/08/2011 22:31:32 | 33 m  | 157  | 25  | 17  | PHYSICS_1 | 3 |



- On the column “Run Type” click on the binocular badge and type “physics” in the field “Run Type Filter”. Then do “Submit”, and you thus set filter – select only PHYSICS Runs.



- On the column “Beam” click on the binocular badge and select “yes” in the field “Beam Filter”. Then do “Submit”, and you thus set filter - only Runs with beam.

| Page Browsing | | Runs filters | | Quick Access | |
|--------------------------|--|---------------------------|--|----------------------|--|
| 1-11 of 11 (Page 1 of 1) | | Local filters | | <input type="text"/> | |
| | | Start Time: Last 24 Hours | | | |
| | | Run Type: physics | | | |
| | | | | Export... | |

| Statistics | Detectors | Trigger Clusters | Trigger Classes | Quality Flags | Shuttle | Beam Condition |
|------------|-----------|------------------|-----------------|---------------|---------|----------------|
|------------|-----------|------------------|-----------------|---------------|---------|----------------|

| Beam | Run ▼ | Start Time | Duration | # of LDCs | # of GDCs | # of Detectors | Partition |
|------|--------|---------------------|----------|-----------|-----------|----------------|-----------|
| | 159451 | 19/08/2011 10:05:27 | 8 m | 130 | 25 | 13 | PHYSICS_1 |
| | 159450 | 19/08/2011 00:39:30 | 9 h | 141 | 25 | 14 | PHYSICS_1 |
| | | | | | | | |

| Page Browsing | Runs filters | Quick Access |
|--------------------------|---------------------------|--------------|
| 1-11 of 11 (Page 1 of 1) | Local filters | |
| | Start Time: Last 24 Hours | |
| | Run Type: physics | |

| Statistics | Detectors | Trigger Clusters | Trigger Classes | Quality Flags | Shuttle |
|------------|-----------|------------------|-----------------|---------------|---------|
|------------|-----------|------------------|-----------------|---------------|---------|

Beam Filter

Possible values

--- Select ---

--- Select ---

No

Yes

Submit

Cancel

- On the column “Duration” click on the binocular badge and type “10”, then select “Minutes” in the field “Duration Filter”. Then do “Submit”, and you thus set filter - only Runs with duration more, than 10 min.

| | | | | | | | | | | | | | | | | | |
|--------------------------|--|-----------------------|--|----------------------|--|-----------------|--|---------------|--|-----------|--|-----------------|--|-----------|--|----|--|
| Page Browsing | | Runs filters | | Quick Access | | | | | | | | | | | | | |
| 1-20 of 27 (Page 1 of 2) | | Local filters | | <input type="text"/> | | Export | | | | | | | | | | | |
| | | Run Type: physics | | | | | | | | | | | | | | | |
| | | Beam: Yes | | | | | | | | | | | | | | | |
| | | Start Time: Last Week | | | | | | | | | | | | | | | |
| Statistics | | Detectors | | Trigger Clusters | | Trigger Classes | | Quality Flags | | Shuttle | | Beam Conditions | | | | | |
| Beam | | Run | | Start Time | | Duration | | # of LDCs | | # of GDCs | | # of Detectors | | Partition | | Su | |
| | | | | | | | | | | | | | | | | | |
| 159379 | | 18/08/2011 03:29:00 | | 3 h | | 59 | | 25 | | 12 | | PHYSICS_1 | | 1 | | | |
| 159378 | | 18/08/2011 01:51:16 | | 2 h | | 59 | | 25 | | 12 | | PHYSICS_1 | | | | | |

Page Browsing: 1-20 of 27 (Page 1 of 2)

Runs filters:

- Local filters
- Run Type: physics
- Beam: Yes
- Start Time: Last Week

Quick Access: [Search] [Filter]

Statistics | Detectors | Trigger Clusters | Trigger Classes | Quality Flags | Shuttle | Beam Conditions

| Beam | Run | Start Time |
|--------|--------|---------------------|
| [Icon] | 159379 | 18/08/2011 03:29:00 |
| [Icon] | 159378 | 18/08/2011 01:51:16 |
| [Icon] | 159356 | 17/08/2011 22:31:32 |
| [Icon] | 159355 | 17/08/2011 22:25:54 |
| [Icon] | 159319 | 17/08/2011 15:07:37 |
| [Icon] | 159318 | 17/08/2011 14:21:29 |
| [Icon] | 159317 | 17/08/2011 14:10:26 |

Duration Filter:

Predefined filters: [Select]

Range:

Min: 10 Minutes (numeric)

Max: [] Minutes (numeric)

[Submit] [Cancel]

- On the column “Run” click on the binocular badge and in the field “Run Filter”, at the field “Min” type the number of the last Run with RQF, found at check-list as mentioned above. Then do “Submit”, and you thus set filter - only Runs following for already marked Run.

PHOS check list

| On-call shifter | Sergey NIKOLAEV | | | Date | 09.08.2011 | | |
|--|--------------------|---------------------|--------------------------|--|-------------------------------|---------------------------------|------------------|
| C.Plant (level ?~68%,Ready Int. v). Cool. water pr.~550 | Alarms, Interlocks | Busy time (~ 1msec) | AVGEVT size (~11 – 17kb) | LDC stat. subevent/total-100/90/80 /50/40/45 % | DQM peak position (~500-1000) | Last PHYS-RUN with Quality Flag | RUN type |
| OK | NO | OK | 16.1 kb | reasonable | 615.8 double | 158793 | Physics_1 158777 |
| MODULE 2 | | | | MODULE 3 | | MODULE 4 | |

Page Browsing: 1-13 of 13 (Page 1 of 1)

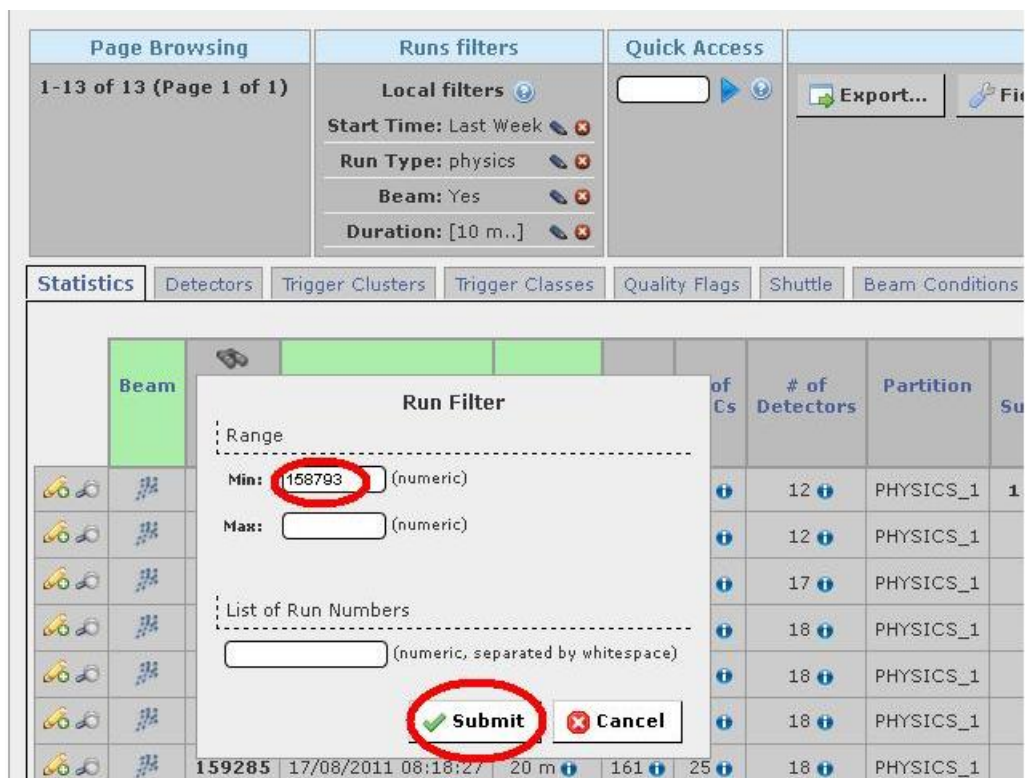
Runs filters:

- Local filters
- Start Time: Last Week
- Run Type: physics
- Beam: Yes
- Duration: [10 m..]

Quick Access: [Search] [Filter] [Export...] [Field]

Statistics | Detectors | Trigger Clusters | Trigger Classes | Quality Flags | Shuttle | Beam Conditions

| Beam | Run | Start Time | Duration | # of LDCs | # of GDCs | # of Detectors | Partition | SubE |
|--------|--------|---------------------|----------|-----------|-----------|----------------|-----------|------|
| [Icon] | 159379 | 18/08/2011 03:29:00 | 3 h | 59 | 25 | 12 | PHYSICS_1 | 1 24 |



II. Check the PHOS parameters.

- Click on the Magnifying glass badge (“Run Details”) in the most left column and you will get to “Run Conditions”. Here you should check if PHOS was participated in the run. If no – so no flag.

Duration: [10 m..]

Run: [158793..]

Statistics

Detectors

Trigger Clusters

Trigger Classes

Quality Flags

Shuttle

Beam Conditions

Overview

| | Beam | Run ▼ | Start Time | Duration | # of LDCs | # of GDCs | # of Detectors | Partition | Total SubEvents |
|--|------|--------|---------------------|----------|-----------|-----------|----------------|-----------|-----------------|
| | | 158856 | 10/08/2011 08:28:55 | 1 h | 149 | 25 | 15 | PHYSICS_1 | 560 |
| | | 158844 | 10/08/2011 06:10:39 | 2 h | 53 | 25 | 10 | PHYSICS_1 | 205 |
| | | 158794 | 09/08/2011 15:46:20 | 3 h | 160 | 25 | 17 | PHYSICS_1 | 1 859 |
| | | 158793 | 09/08/2011 13:59:40 | 2 h | 160 | 25 | 17 | PHYSICS_1 | 805 |

Run Details - 158793

Run Browsing Quick Access

158793

Run Conditions Run Statistics Trigger Info Run Quality DDLs Info LDCs Statistics GDCs Statistics

General

Run #: 158793
Period: LHC11d
Partition: PHYSICS_1
Readout Detectors: ACORDE
EMCal
FMD
HLT
HMPID
MUON_TRG
MUON_TRK
PHOS
SDD
SPD
SSD
TO

Configura

- Go to “Run Statistics” tab. Check the Avg SubEvent Size for PHOS. It should be $\sim 15 \pm 3$ kb.

Run Details - 158793

Run Browsing Quick Access

158793

Run Conditions **Run Statistics** Trigger Info Run Quality DDLs Info LDCs Statistics GDCs Statistics

Date/Time

Start Time: 09/08/2011 13:59:40
End Time: 09/08/2011 15:40:56
Duration: Days: 0
Hours: 1
Minutes: 41
Seconds: 16

Data Taking

Cluster Total

| | |
|---|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |

Data Taking - Event Building

Data Taking

go down to find EVT size

| | | | | | | | | | |
|---------------------|---------|-------|---------|---|-------|---|-----|---|--------|
| ldc-MUON_TRG-0 | 639 173 | 4 143 | 639 005 | 1 | 4 134 | 0 | 163 | 8 | 639 00 |
| ldc-PHOS-M3-00-03-0 | 330 572 | 1 023 | 330 567 | 1 | 1 023 | 0 | 0 | 0 | 330 56 |
| ldc-PHOS-M3-02-03-0 | 330 572 | 1 249 | 330 567 | 1 | 1 249 | 0 | 0 | 0 | 330 56 |
| ldc-PHOS-M4-00-01-0 | 330 572 | 951 | 330 567 | 1 | 951 | 0 | 0 | 0 | 330 56 |
| ldc-PHOS-M4-02-03-0 | 330 572 | 610 | 330 567 | 1 | 610 | 0 | 0 | 0 | 330 56 |
| ldc-PHOS-M5-00-01-0 | 330 572 | 487 | 330 567 | 1 | 487 | 0 | 0 | 0 | 330 56 |
| ldc-PHOS-M5-02-03-0 | 330 572 | 551 | 330 567 | 1 | 551 | 0 | 0 | 0 | 330 56 |
| ldc-SDD-00-03-0 | 330 572 | 920 | 330 567 | 1 | 920 | 0 | 0 | 0 | 330 56 |
| ldc-SDD-04-07-0 | 330 572 | 674 | 330 567 | 1 | 674 | 0 | 0 | 0 | 330 56 |

➤ Go to “DQM” tab → PHS → PHSQAshifter.

Run Details - 158793

Actions

Print tab Print all

LDCs Statistics
GDCs Statistics
Shuttle Info
File Info
Log Entries
InfoLogger Messages
DQM

Run Details - 158793

Run Browsing Quick Access

158793

Run Conditions
Run Statistics
Trigger Info
Run Quality
DDLs Info
LDCs Statistics
GDCs Statistics

Data Quality Monitoring Info - agent 'PHSQAshifter'

Expand all Collapse all
Tree
ACD
DAQ
EMC
FMD
HLT
HMP
MCH
MTR
PHS
PHSQAshifter
SDD
SPD

Overview
Permanently Archived MOs (0)
Temporarily Archived MOs (0)

General

Detector: PHS
Version: 1.30
Monitor Objects: 32
Versions: 3616
Total Size: 19.7 MB
Last Updated: 09/08/2011 15:41:30

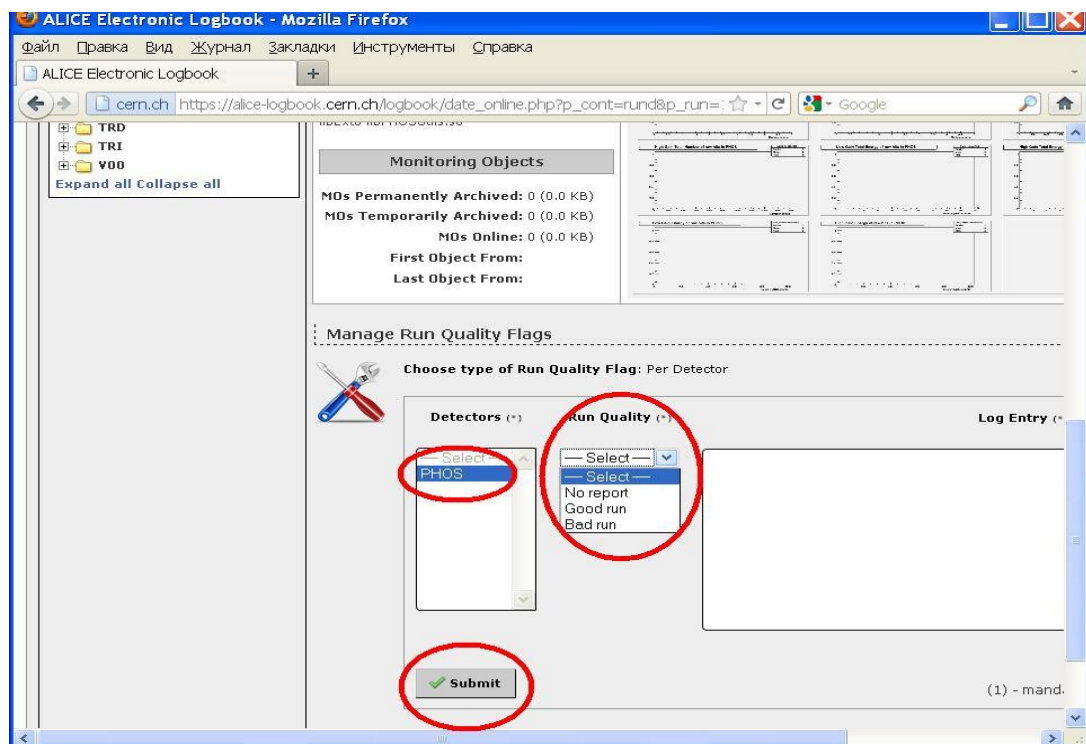
Runtime Parameters

histograms

- Click 2 times on the histograms to scale them up. Check the following histograms (see page 2):
 - #1 Low Gain Hits in EMCA PHOS Modules. The events should be in all three modules, and $N(\text{mod}2) \geq N(\text{mod}3) \geq N(\text{mod}4)$.
 - #2 High Gain Hits in EMCA PHOS Modules. It should be the same.
 - #4 High Gain Total Number of raw Hits in PHOS. The peak should be $\sim 500 - 1200$, it may be single or double.
- All that figures are concerned to the p+p beam.
- After checking the PHOS parameters, you may set the RQF. If all mentioned parameters are reasonable for the given run, you may set RQF “Good Run”, if no – “Bad Run”.

III. Set Run Quality Flags (RQF).

- Close the histogram window and you'll be in DQM tab.
- In the field “Manage Quality Flag” select in “Detector” field: PHOS (in this tab it is already done). Then in the “Run Quality” field select “Good Run” or “Bad Run”.



- If you set “Bad Run”, then fill the field “Log Entry”, it’s mandatory. In case of “Good Run” it’s possible too.
- Click “Submit”. The RQF was set for the given Run.
- Another way to set RQF is clicking on the Magnifying glass badge (“Run Details”) in the most left column and then go to “Run Quality” tab. Here you should first mark “Per Detector”, then select in “Detectors” field: PHOS. Then in the “Run Quality” field select “Good Run” or “Bad Run”.

Файл Правка Вид Журнал Закладки Инструменты Справка

ALICE Electronic Logbook

cern.ch https://alice-logbook.cern.ch/logbook/date_online.php?p_cont=rl

Run Conditions Run Statistics Trigger Info **Run Quality** DDLs Info LDCs Statistics GDCs Statistics Shuttle Info File Info

Data Taking

Good run

Per Detector

| | | |
|-----------|----------|------|
| ACORDE: | Good run | E |
| FMD: | Good run | H |
| MUON_TRG: | Good run | MUON |
| PHOS: | Good run | |
| SPD: | Good run | |
| T0: | Good run | |
| TPC: | Bad run | |
| V0: | Good run | |

Manage Run Quality Flags

Choose type of Run Quality Flag: ☐ Data Taking ☒ Per Detector

| Detectors (*) | Run Quality (*) | Log Entry (*) ⁽¹⁾ |
|--|--|------------------------------|
| — Select — ACORDE EMCal FMD HLT HMPID MUON_TRG MUON_TRK PHOS SDD | — Select — — Select — No report Good run Bad run | |

Submit

The fields marked with *

- After setting the RQF for the group of Runs, it’s useful to mark the number of the last Run with RQF in the appropriated cell “Last PHYS-RUN with

Quality Flag” of the actual Check-list. It’ll be convenient for finding out the new, yet not marked runs with no RQF.

PHOS check list

| On-call shifter | Sergey NIKOLAEV | | | Date | 10.08.2011 | | |
|---|-----------------------|------------------------|---------------------------------|---|-------------------------------------|--|---------------------|
| C.Plant (level ?~68%.Ready Int.v). Cool. water pr.~550 | Alarms, Interlocks | Busy time (~ 1msec) | AVG EVT size (~11 – 17kb) | LDC stat. subevent/ /total-100/90/80 /50/40/45 % | DQM peak position (~500-1000) | Last PHYS- RUN with Quality Flag | RUN type |
| OK | NO | OK | 15.3 kb | reasonable | 596.8 double | 158879 | Physics_1 158844 |

IV. How to check if Run was marked by RQF.

- On the “Fields” tab mark “Run Quality Overview” and “Save” it.

The screenshot displays the PHOS check list web interface. At the top, there is a navigation bar with links: Logbook, Runs, Fills, Actions, Links, and Logout. Below this, the main content area is divided into several sections. On the left, there is a 'Page Browsing' section showing '1-20 of 24 (Page 1 of 2)'. In the center, there is a 'Runs filters' section with 'Local filters' including 'Start Time: Last 30 Days', 'Run Type: physics', 'Beam: Yes', 'Duration: [10 m..]', and 'Run: [158793..]'. To the right of the filters is a 'Quick Access' section with a search bar and buttons for 'Export...' and 'Fields...'. The 'Fields...' button is circled in red. Below these sections is a 'Statistics' tab with sub-tabs: Detectors, Trigger Clusters, Trigger Classes, Quality Flags, Shuttle, Beam Conditions, and Overview. The 'Quality Flags' sub-tab is selected. Below the sub-tabs is a table with columns: Beam, Run, Start Time, Duration, # of LDCs, # of GDCs, # of Detectors, Partition, Total SubEvents, SubEvent Rate, and Time. The table shows two rows of data for runs 159379 and 159378.

| Beam | Run | Start Time | Duration | # of LDCs | # of GDCs | # of Detectors | Partition | Total SubEvents | SubEvent Rate | Time |
|------|--------|---------------------|----------|-----------|-----------|----------------|-----------|-----------------|---------------|------|
| | 159379 | 18/08/2011 03:29:00 | 3 h | 59 | 25 | 12 | PHYSICS_1 | 1 240 977 | 117.51 | 16 |
| | 159378 | 18/08/2011 01:51:16 | 2 h | 59 | 25 | 12 | PHYSICS_1 | 656 191 | 115.91 | 8 |

Start Time: Last 30 Days

Run Type: physics

Beam: Yes

Duration: [10 m..]

Run: [158793..]

Clusters Trigger Classes Quality Flags Shuttle Beam Co

| Start Time | Duration | # of LDCs | # of GDCs | # of Detectors | Run Type |
|--------------|----------|-----------|-----------|----------------|----------|
| 011 03:29:00 | 3 h | 59 | 25 | 12 | PHYSICS |
| 011 01:51:16 | 2 h | 59 | 25 | 12 | PHYSICS |
| 011 22:31:32 | 33 m | 157 | 25 | 17 | PHYSICS |
| 011 15:07:37 | 18 m | 161 | 25 | 18 | PHYSICS |
| 011 14:21:29 | 43 m | 161 | 25 | 18 | PHYSICS |
| 011 08:50:54 | 50 m | 161 | 25 | 18 | PHYSICS |
| 011 08:18:27 | 20 m | 161 | 25 | 18 | PHYSICS |
| 011 06:24:38 | 1 h | 151 | 25 | 17 | PHYSICS |
| 011 02:16:51 | 15 m | 158 | 25 | 17 | PHYSICS |
| 011 00:05:46 | 31 m | 161 | 25 | 18 | PHYSICS |
| 011 01:30:30 | 2 h | 59 | 25 | 12 | PHYSICS |
| 011 00:26:23 | 50 m | 54 | 25 | 11 | PHYSICS |
| 011 21:12:26 | 3 h | 53 | 25 | 10 | PHYSICS |
| 011 05:57:16 | 4 h | 43 | 25 | 9 | PHYSICS |

List of fields currently shown

Beam ☒ Run ☒

Start Time ☒ Duration ☒

of LDCs ☒ # of GDCs ☒

of Detectors ☒ Partition ☒

Total SubEvents ☒ SubEvent Rate ☒

Total Data Readout (MB) ☒ Data Rate Readout (MB/s) ☒

Run Type ☒ HLT Mode ☒

L3 Magnet Current (kA) ☒ Dipole Magnet Current (kA) ☒

EOR Reason ☒ Data Migrated ☒

Run Quality Overview ☒

List of fields currently hidden

End Time ☐ Total Events ☐

Event Rate ☐ Total Data Event Builder (MB) ☐

Data Rate Event Builder (MB/s) ☐ Total Data Recording (MB) ☐

Data Rate Recording (MB/s) ☐ Period ☐

LDC Local Recording ☐ GDC Local Recording ☐

GDC mStream Recording ☐ Event Building ☐

ECS Success ☐ DAQ Success ☐

Save Cancel Preferences

➤ The new column “Run Quality Overview” will appear in the right. When guide the mouse at a “i” sign, the information about amount of detectors in run and amount of flags RQF be accessible. The colours in this column means:

- Orange: not all detectors have set yet their flags, but no bad flags so far.
- Green: all detectors flags set, all good.
- Pink: at least one flag was set to bad.

| Data Rate Readout (MB/s) | Run Type | HLT Mode | L3 Magnet Current (kA) | Dipole Magnet Current (kA) | EOR Reason | Data Migrated | Run Quality Overview | |
|--------------------------|----------|----------|------------------------|----------------------------|-----------------------|---------------|----------------------|--|
| 15.36 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 8/10 | |
| 14.98 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 8/10 | |
| 611.74 | PHYSICS | C | -30 | -6 | Clock_transition | Yes | 10/15 | |
| 420.96 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 11/16 | |
| 206.82 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 11/16 | |
| 434.58 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 14/16 | |
| 302.51 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 14/16 | |
| 420.43 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 13/15 | |
| 374.19 | PHYSICS | C | -30 | -6 | Subsystem_failure:DCS | Yes | 14/15 | |
| 518.82 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 14/16 | |
| 18.36 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 9/10 | |
| 10.96 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 9/9 | |
| 6.37 | PHYSICS | C | -30 | -6 | Operator_Request | Yes | 7/8 | |

| Run Quality | |
|---------------------|----------|
| ACORDE | Good run |
| EMCal | Good run |
| MUON TRG | Good run |
| PHOS | Good run |
| SDD | Good run |
| SPD | Good run |
| SSD | Good run |
| T0 | Good run |
| V0 | Good run |
| Total 'Good run' 9 | |
| Total 'Bad run' 0 | |
| Total 'No report' 0 | |

- The same information in other form you can see if clicking on the tab “Quality Flags”.

| Run: [158793..] | | | | | | | |
|-----------------|-----------|---------------------|-----------------|---------------|-----------|----------------|-------|
| Statistics | Detectors | Trigger Clusters | Trigger Classes | Quality Flags | Shuttle | Beam | |
| Beam | Run | Start Time | Duration | # of LDCs | # of GDCs | # of Detectors | Part |
| | 159379 | 18/08/2011 03:29:00 | 3 h | 59 | 25 | 12 | PHYSI |
| | 159378 | 18/08/2011 01:51:16 | 2 h | 59 | 25 | 12 | PHYSI |

Page Browsing

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Runs filters

Local filters

Beam: Yes

Run: [158793..]

Other filters

Start Time: Last 30 Days

Run Type: physics

Duration: [10 m..]

Quick Access

Export...

Statistics

Detectors

Trigger Clusters

Trigger Classes

Quality Flags

Shuttle

Beam Conditions

Overview

| Beam | Run | DATA TAKING | ACCORD | CPV | DAQ TEST | EMCAL | FMD | HMPID | MUON TRG | MUON TRK | PHOS | PMD | |
|------|-----|-------------|----------|----------|----------|-------|----------|-----------|----------|----------|-----------|----------|------|
| | | 159379 | Good run | Good run | | | Good run | | | Good run | No report | Good run | Good |
| | | 159378 | Good run | Good run | | | Good run | | | Good run | No report | Good run | Good |
| | | 159356 | Bad run | Good run | | | Good run | Good run | | Good run | No report | Good run | Good |
| | | 159319 | Bad run | Good run | | | Good run | No report | Good run | Good run | No report | Good run | Good |

- Check up that the label has been put in column “Run Quality Overview”, or in the tab “Quality Flags”.