



# Stable Beam Report via OMS



# Stable Beam Report



- When the CMS detector is running - a stable beam report needs to be filled after a few minutes from the start of the stable beams data-taking by the DOC shifter.
- The report itself includes filling a template that includes data from different sources such as DCS/DAQ/DQM as well as a relatively long list of plots to be included in the report (for a full list - visit [https://twiki.cern.ch/twiki/bin/view/CMS/PixelStandardOperations#Stable\\_Beams\\_Checklist](https://twiki.cern.ch/twiki/bin/view/CMS/PixelStandardOperations#Stable_Beams_Checklist)).



# Example of Template

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Stable Beam Report - Fill XXXX  
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fill :  
filling scheme :  
run :  
time :  
reporter :  
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DCS:

\* tree owner :  
\* BPix/FPix status :  
\* BPix/FPix recipe status:  
\* BPix majority panel  
  \* Control : /36  
  \* LV : /128  
  \* HV : /128  
\* FPix majority panel  
  \* Control : /16  
  \* LV : /96  
  \* HV : /96  
\* alarm screen dcs:  
  \*  
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DAQ:

\* DAQ Physics bit:  
\* DAQ Pixel HV bit:  
\* Pixel status :  
\* FEDs : /108  
\* deadtimes  
  \* ICI1 :  
  \* ICI2 :  
  \* ICI3 :  
  \* ICI4 :  
\* automasked channels  
  \*  
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DQM:

\* run number:  
\* LS number:  
\* WBM Physics bit:  
\* WBM BPix bit:  
\* WBM FPix bit:  
\* on-track cluster charge peak position  
  \* L1 :  
  \* L2 :  
  \* L3 :  
  \* L4 :  
  \* D1(-/+) : /  
  \* D2(-/+) : /  
  \* D3(-/+) : /  
\* on-track BPix smiley plots :  
\* on-track FPix cluster size >2.3 :  
\* cluster position:  
  \* BPix :  
  \* FPix :  
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# Using OMS to generate report

- The task involves generating the report and the plots using OMS (which is the new online monitoring system).
- The biggest challenge is to find an access to all the different observables plotting them and create the relevant report.
- There might be changes needed to the way OMS operates such as being able to use a generic query rather than a view which will be decided on as we work on this.