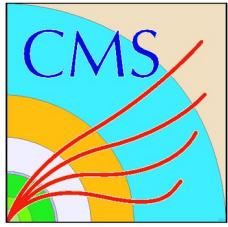


CMS Test Beams in 2022

- Summary -

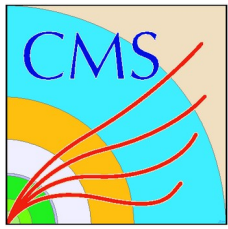
D. Lazic

Boston University



In a nutshell

This year, like in the previous ones, several CMS teams have spent weeks taking data in different beam lines, with different beam parameters. Our requests were satisfied within the limits of possible (and quite a lot was possible!) Not all the programmes could be completed, but that is reality of test beams...



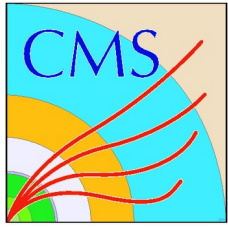
We had help..!

We had, as usual, excellent help from beam line physicists and support people from Experimental Areas team as well as Transport.

The promptness and quality of their reactions to our requests was very much appreciated.

Big THANK YOU to all of them!

Many thanks as well to our colleagues with whom we shared beam lines, their cooperation was much appreciated!

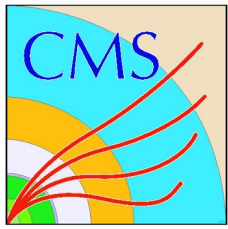


Consolidation is needed!

Like other teams, CMS has lost some beam time due to hardware failures. We were lucky, not too much of it!

Unfortunately, loss of few days of a short test beam period cannot be compensated by increased number of cycles at a later time - the people and the equipment may be long gone by that time.

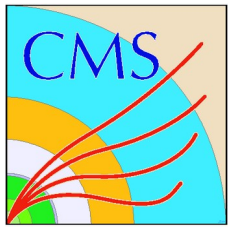
We are looking forward to further consolidation of the accelerator chain!



Improvements

We are aware of several plans to improve the beam areas (gas distribution, more X-Y tables etc), all that will be very welcome!

The only word of caution: the outsourced work should be closely supervised or at least checked daily! Not all contractors are competent, sometimes their solutions of simple problems are too "original".



A small request

Could we have a set of drawings of different test beam areas with associated control rooms, cable trays and a scale (in metres)?

It would help planning: the length of cables, placement of different pieces of equipment, what is controlled from where etc etc. Using drawings like SPSXLHN10002 or SPSXLHN10003 is not easy..!