



CM-P00074209

Memorandum

To : Members of the Track Chamber Committee
From : G.R. Macleod
Subject : Standardization in connection with large bubble chambers

For purposes of the discussions under item 5 of the agenda of the Track Chamber Meeting of 25th October 1967, I would like to list those points on which agreement could now be reached on the film format for the large chambers (Gargamelle, Mirabelle and the European 3m50).

1. Film width 70 mm.
2. Perforated film based on commercial standard, with perforations spaced at an integral multiple of 9.5 mm.
3. Frame length to be an integral (and preferably the same integral) multiple of 9.5 mm.
4. Film length between corresponding views on one film to be minimised as close to 1m50 as possible.
5. Reel size for scanning and measuring machines 300m. As cameras will be using reels of more than 300m, then this implies an automatic device on the cameras to advance the film sufficiently for cutting without loss of pictures every 300m. A standard reel for 300m length of film is under design.
6. Data Box compatible with CERN 2m HBC standard (data presentation, image quality and reliability).

Agreement on these film standards would at least allow the construction of a film transport system which, by addition of standard elements, could be adapted to the needs of films from Gargamelle, Mirabelle and the European 3m50 chambers.