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COMPLETION OF EXPERIMENT T 200 (π^- 4 GeV/c)

DPhPE - SACLAY

In the proposal for experiment T 200 (CERN/TCC 69-22) the number of events that we quoted (500 K in total) was the expected yield from 400 000 pictures. Let us recall that we intend to process at Saclay all the non-strange particle events.

We obtained in August 1969 200 000 pictures that were to be shared with a CERN group who is measuring the strange particles and a sub sample of the 4-prongs.

We assumed that we could use the 200 000 pictures taken in mid 1967. It appears now that this film is no longer in condition to be rescanned and measured on automatic devices such as the HPD and LSD. This is essentially due to the many passes it has undergone.

We are therefore left with the 1969 run which in any case by itself falls below the original request.

We recall briefly, as an example, that the 350 000 2-prongs expected from the 400 000 pictures would be the bare minimum to have the sign of the $\pi\pi$ $I = 2$ scattering length, any realistic information on the $\pi\pi$ phase shifts above 1 GeV and any significant $d\sigma/du$ distributions.

For these reasons we ask the TCC to approve a new run of 200 K pictures for a period before spring 1971. We note that all beams except K 8 are adequate for a 4 GeV/c π^- run.