

DISCUSSION 3 : MONDAY AFTERNOON (16.30HRS - 18.00HRS)

Industrial Products for Beam Instrumentation

In various branches of high technology industry there has been considerable progress in the past years which could be used for beam instrumentation.

The subject will be introduced by two short demonstrations:

1) a demonstration of modern audio electronics

with 24bit-96kHz ADC, digital signal electronics and application programs under windows on a PC, which allow to change the parameters of the signal treatment.

Potential applications are data monitoring at constant sampling frequency, orbit feedbacks (including high power audio amplifiers), noise reduction on beam current transformers....

2) digital treatment of video signals

webcams, frame grabbers, CCD-data via USB, all one needs for image acquisitions, in particular interesting for profile measurements.

These introductory demonstrations will not last longer than 30 minutes.

The remaining time will be used to pass through the audience collecting information into a two dimensional table, which shall contain as row index the accelerator and as column index the type of measurement.

The contents of the table will be the "of the shelf" industrial product, that has been used/will be used to perform the task.

This table with some explanation will be put into the conference proceedings, such that the interested parties can take the necessary contacts.