Status and plan of FADC analysis.

The FADC's data of the last run was analyzed in Gatchina. Several problems of this experiment were exposed. We propose to study following problems in the next run.

1. Cancellation of tails of muon signals: how successful is this procedure.
2. Performance of TPC's at 50 kHz (the problem of pile-ups).
3. The problem of cross talk between TPC and PC.
4. We must get good fit for time distributions of decay electrons in MWPC and electron counter.
5. To study the sensitivity FADC's analysis to low level impurities.
6. Search the events with Alvarez muons to determinate the level of deuterium admixture.
7. Study of diffusion of d-mu atoms in TPC-chamber by tracking of muons and electrons.
8. The understanding of the influence a Delta-rays background on the quality of the determination the levels of impurity and deuterium.

To understand the problems 5 and 8 we propose to collect data at different high voltages of TPC and different nitrogen concentrations (2 to 140 ppm). To study the diffusion problem we need to collect data at several concentrations of deuterium (140 and 1000 ppm).