

## LETTER OF INTENT

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The above mentioned members of the University of Geneva would like to express their interest to collaborate jointly to the future research program of LEAR and especially to study the polarization effects in the  $p\text{-}\bar{p}$  system at medium energy.

This will represent a natural continuation of the work that the team is presently doing at SIN on the proton-proton scattering. The installed equipment there consists of a polarized proton beam with a superconducting solenoid for spin rotation, of a polarized butanol target and of two moving arms for the detection of the outgoing particles. One arm is supporting a magnetic spectrometer. A polarimeter is installed on the other arm. The main detectors are 20 planes of MWPC.

Special effort was made to accommodate fast acquisition and on-line treatment of the data. Part of this equipment however belongs to SIN and a negotiation is necessary if a complete transfer to LEAR is wanted. The team may also be interested in the utilization and possibly the development of a polarized jet-target.

By lack of time and of manpower no particular layout for LEAR can be proposed here, but the team intends to participate with other universities to the elaboration of a suitable proposal. With respect to his long term research program at SIN, the Geneva team considers the collaboration at LEAR only for a limited period.