



SCP
CERN-DRDC
91-30

CERN LIBRARIES, GENEVA



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MEMORANDUM

To : E. Iarocci, chairman of the DRDC.
From : J-M. Gaillard, spokesperson of RD-1.
Object : Information on RD-1.

1. Composition of the Collaboration

Since last November the RD-1 has been strengthened by the addition of two French groups (Marseille and Clermont-Ferrand) and by a sizeable increase in the participation of several Institutions. As it stands, the RD-1 project is now a collaboration of 12 Institutes which proceed harmoniously to develop the Scintillating Fibre Calorimetry in view of the LHC.

2. Light Detector Developments

Several types of light detectors are under study by the RD-1 collaboration for future use with scintillating fibre calorimeters, among them the Hybrid Proximity Diode detector.

Recently the INFN has decided to launch and fund a large project for a rather general approach to the development of hybrid light detectors based on the image intensifier techniques. It has also decided not to support directly the Hybrid Proximity Diode development as proposed by RD-1. These decisions appear to be justified by a possible broader interest in the Italian scientific community for such techniques. Despite the reassurance that specific needs of RD-1 would be given special attention in the new project, the collaboration sees a series of consequences which are very detrimental to the interests of the RD-1 project.

First, the INFN intends to handle the project on a national basis, without direct collaboration with other institutions. This precludes the possibility for non-Italian collaborators of RD-1 to participate to the development, technically and financially, despite their intention to do so.

Furthermore, the wide-scope nature of the INFN project is bound to impose a long time schedule which would be detrimental to RD-1. In fact, we know that the specific requirements of the RD-1 collaboration can be accomplished with a much faster schedule. The unnecessarily longer time scale would have to be added to the more than six months delay accumulated, out of courtesy, while waiting for the INFN decision.

For these reasons, the RD-1 collaboration has decided to proceed independently from the INFN project, at least in the initial phase, in order to have at its disposal prototypes of a single pixel proximity diode detector on the shortest possible time scale. The RD-1 collaboration will obviously remain in contact, as much as possible, with the INFN project, in particular for longer term developments.