



CM-P00046640

MEMORANDUM

To /A : SPSC Members

From /De : C.R. Gruhn, Spokesman NA36 *C.R. Gruhn*
(Bergen, Berkeley, Birmingham, Carnegie-Mellon, Chandigarh,
Cracow, Madrid, Santiago, Strasbourg, Vienna)Subject/Objet : Extension of NA36 to anticipated ion running at the
CERN SPS in 1989 or 1990

As a fully equipped experiment, NA36 (SPSC/M390, 382, SPSC/P196) first successfully took data in the sulphur run of October 1987, collecting some 10^6 events. New tracking procedures for these high multiplicity events are well advanced and analysis is expected to be complete in early 1989.

The October 1987 sulphur run for NA36 was only a fraction of the 18 day period. This was because of those periods of time taken to "tune" the SPS (expected for a new beam) and by the blocking of the beam by NA35 (not expected by NA36). The net result was that we had only a few days of beam for data taking.

We request to run NA36 with only small modifications in 1989/90 in order to achieve our proposed physics. Our experiment/detector system at that time will be well understood to assure physics results and a first high statistics test of the strangeness signal of a quark gluon plasma.

To achieve this result we request 34 days of sulfur beam split equally between 60 GeV/cA and 200 GeV/cA. We also request 34 days of proton comparison run, 17 days proton running prior to the ion run and 17 days proton running after the ion running.

It should be noted that the ion community deferred the 60 GeV/cA running to 1989 (SPSC/M434).

A memorandum in support of this request will be submitted as requested by the SPSC chairman by June 15, 1988.