



CM-P00046571

M E M O R A N D U M

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To/A: SPSC  
From/De: NA4  
Subject/: Scheduling of M2 operation in 1982/1983  
Concerne

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The rescheduling of the muon beam operation due to the accidents in UA1 and NA9 has completely upset our planning for tests and data-taking. We did our best to start data-taking in P2B though we could not implement all safeguards against potential systematic errors and perform all tests that we believe necessary for maximum precision. Nevertheless we are now taking good data at 100 GeV (i.e. the energy of least interest for NA9). By the end of P2B we shall have collected about  $3 \cdot 10^5$  good deep inelastic events on hydrogen out of which about  $10^5$  should be useful for R and A determination in combination with future 200 GeV and 120 GeV data.

We understand that the EMC collaboration are modifying their plans and intend to run in the NA9 configuration, i.e. at low intensity, till the end of 1983. Thus, the foreseen compatibility between the two muon experiments will be delayed until 1984. In this situation, the reasons for high priority of NA9 in 1982 do not seem compelling anymore. For us, it is essential to obtain data at 200 GeV already in 1982, so that we can use them in a combined 100 GeV/200 GeV analysis during the winter shutdown 1982/1983. This should enable us to have interesting new results on  $H_2$  structure functions in 1983.

Consequently, we are requesting one 17 day-subperiod in P4 of 1982 for high intensity data taking at 200 GeV. For that, ca.  $4 \cdot 10^{12}$  protons/burst on T6 are needed.

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