ORGANISATION EUROPÉENNE POUR LA RECHERCHE NUCLÉAIRE CERN EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

Téléphone :

(022) 41 98 11

1211 GENÈVE 23

Télex:

GENÈVE - 2 36 98

Télégramme : CERNLAB-GENÈVE

Genève, 5 March 1969

Dr. J.F. Clauser Goddard Institute for Space Studies 2880 Broadway New York - N.Y. 10025

Dear Dr. Clauser,

Thank you for your letter of February 14, and please excuse the delay in this reply. I think that the experiment you propose is of very high interest. I do not know of other relevant experiments that have been done, and agree with you that the Wu-Shaknow experiment is not directly relevant. Experiments have been proposed involving neutral kaons (Inglis, Revs.Modern Phys. 33, 1, 1961, and Day, Phys.Rev. 121, 1204, 1961) and will become practical in the course of time. In this one should replace the magnets of the Bohm-Aharonov case by regenerating slabs and consider the correlation as a function of their thicknesses. In view of the general success of quantum mechanics, it is very hard for me to doubt the outcome of such experiments. However, I would prefer these experiments, in which one crucial concepts are very directly tested, to have been done and the results on record. Moreover, there in always the slim chance of an unexpected result, which would snake the world I

Sincerely yours,

John Bell

J.S. Bell