

Mr. Yves FELT/DOC

PROPOSAL FOR A TEST OF AN IMPACT PARAMETER TRIGGER

AIMED AT A HIGH STATISTICS HEAVY QUARK STUDY

W. Beusch¹, L. Bravo⁴, M. Dameri², M. Fernandez⁴, B.R. French¹,
J.J. Garcia⁴, K. Knudson¹, D. Marioli^{3(*)}, C. Meroni³, F. Muller¹,
R. Niembro⁴, M.L. Quelle⁴, N. Redaelli¹, L. Rossi¹, D. Torretta³,
G. Vegni³, E. Villar⁴

Spokesman: L. Rossi

Contactman: F. Muller

- 1 CERN, European Organization for Nuclear Research, Geneva, Switzerland
2 Dipartimento di Fisica dell'Università and Sezione INFN, Genoa, Italy
3 Dipartimento di Fisica dell'Università and Sezione INFN, Milan, Italy
4 Departamento de Fisica Fundamental, Universidad de Santander, Spain
(*) Politecnico di Brescia, Italy

ABSTRACT

This proposal outlines a method for triggering on charm particle decays. Triggering on charm efficiently has proved difficult and we are under no illusions. We therefore propose to check if the method will work by performing a 10-day test. Should the test be successful the way would be opened for collecting ~ 10,000 fully reconstructable charm decays per 17 day SPS period.

CERN LIBRARIES, GENEVA



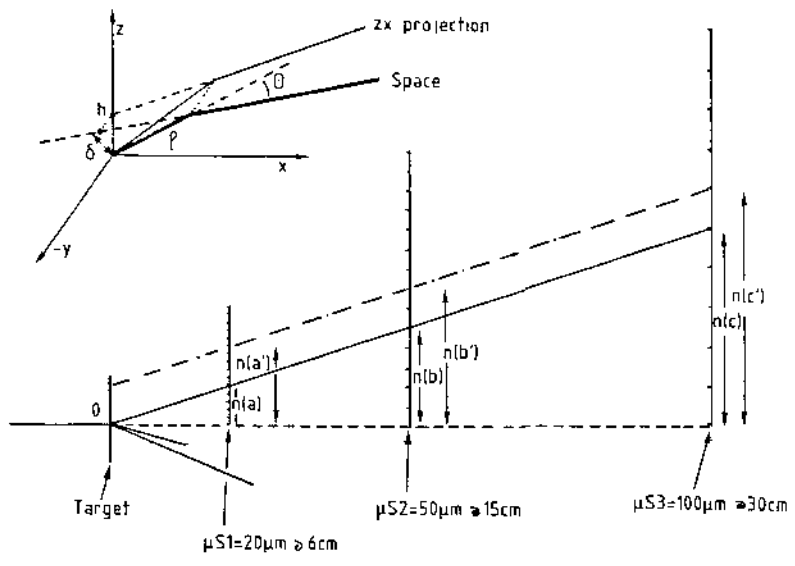


Fig 1 a) - Principle of the Trigger

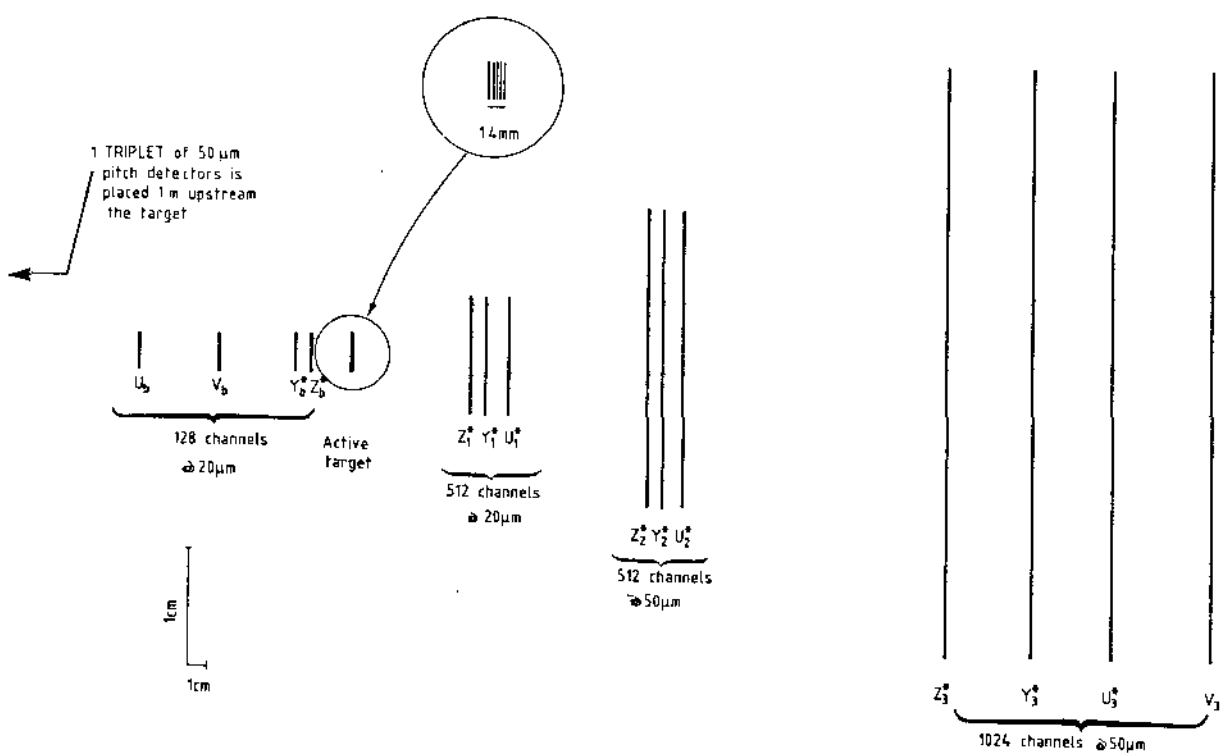


Fig 1 b) - Microvertex detector (in front of Omega spectrometer)