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SUMMARY

MEASUREMENT OF SPIN DEPENDENT OBSERVABLES IN THE $\bar{p}N$ ELASTIC
SCATTERING FROM 300 MeV/c TO 700 MeV/c

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We propose to measure in the post ACOL era $\bar{p}N$ spin observables utilizing a frozen spin target and a high resolution spectrometer. A recoil proton polarimeter together with the spin rotation facility allows a more complete measurement of polarization components in the scattering plane.

I. PHYSICAL MOTIVATION

The first period of the LEAR era is now coming to the end. Meanwhile, one concludes that our knowledge of the $\bar{N}N$ system is still very incomplete. This situation is related to the larger complexity of the $\bar{N}N$ scattering compared to the rather well known NN system. In order to get a feeling of this complexity, let us observe that in the $\bar{N}N$ scattering there is no generalized Pauli principle that excludes in NN for each isospin some partial

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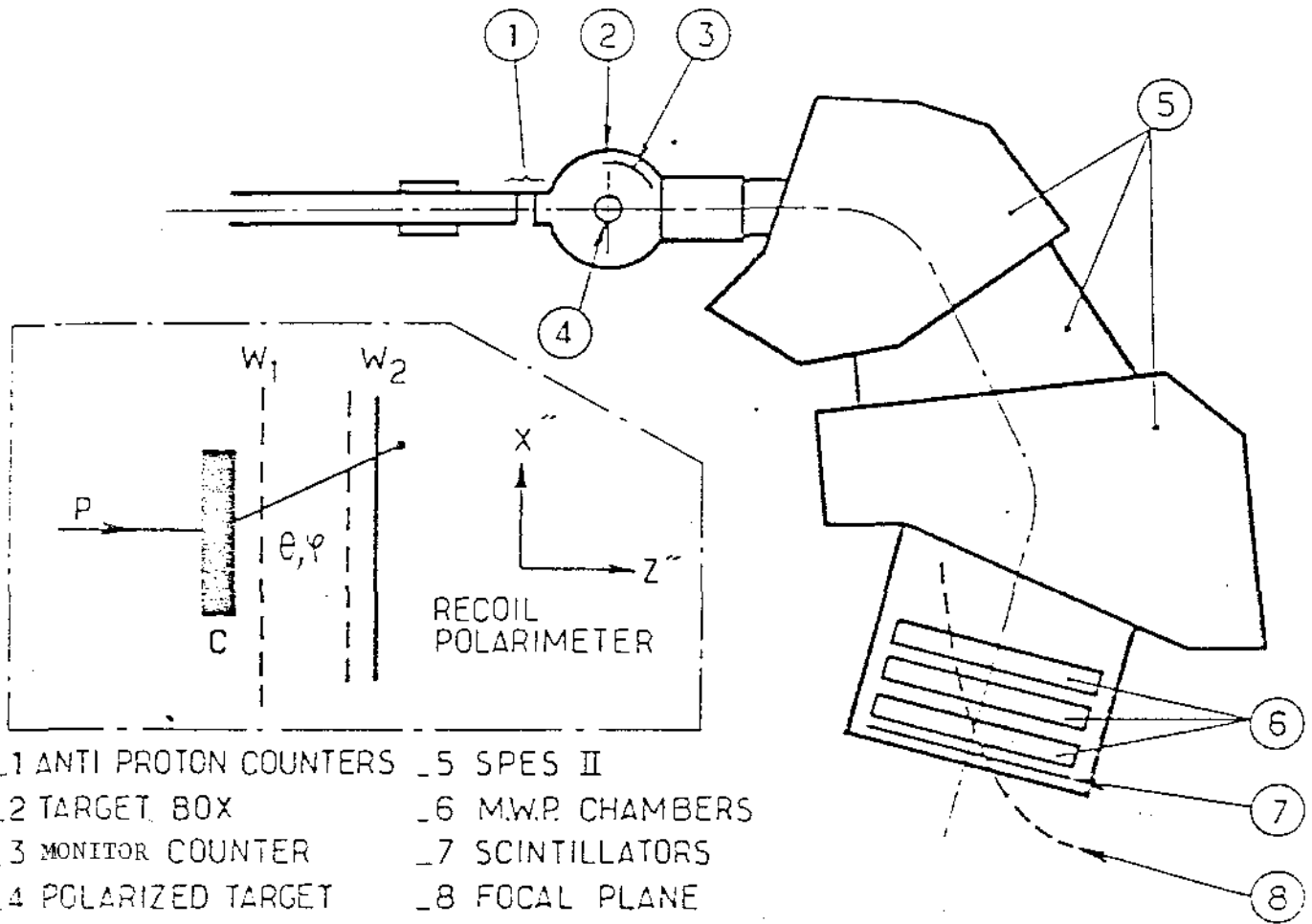


Fig. 1 - Experimental set-up.