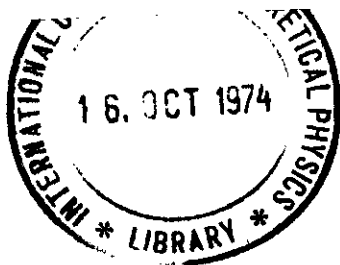


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INTERNAL REPORT
(Limited distribution)

International Atomic Energy Agency

and

United Nations Educational Scientific and Cultural Organization

INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS

TOPICAL MEETING
ON THE PHYSICS OF COLLIDING BEAMS

20 - 22 June 1974

(SUMMARIES AND CONTRIBUTIONS)

MIRAMARE - TRIESTE

July 1974

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There are 3 devices taking data in 3 different straight sections (2nd generation experiments). The 4th section is at present unoccupied.

The experiments are:

- 1 - MEA, a magnetic device, mainly devoted to low multiplicity charged channels
- 2 - $\gamma\gamma 2$, a large solid angle apparatus particularly suited for neutral detection (γ rays). Tagging system for two-photon reactions.
- 3 - $\bar{B}\bar{B}$, a device allowing the detection of relatively slow protons and antiprotons.

Main goals of the present work in the energy range $1.2 \text{ GeV} \leq \sqrt{s} \leq 3 \text{ GeV}$ are:

- i) - Total cross section
- ii) - Systematics of the exclusive channels
- iii) - Hunting for $J^{PC} = 1^{--}$ bosons ($\omega', \varphi' \dots?$)
- iv) - Pairs and form factors: $\pi\pi, K\bar{K}, K\bar{K}^*, K^*K^*, p\bar{p}, \Lambda\bar{\Lambda}, \bar{p}\Delta, \Delta\bar{\Delta}, \dots$
- v) - Study of $0^+, 2^+$ etc. from two-photon reactions
- vi) - Backward-Forward charge asymmetries at low energy

The luminosity performances of Adone are shown in fig. where both the peak luminosity L_p and the average luminosity L (over long runs) are shown.

Adone luminosity data.

