

**E33(YN) T.Kamae**  
**Study of Narrow Resonance in  $\bar{p}p$  Reaction below 1 GeV/c**

Submitted	1976.1.24
Approved	1976.2.4
Beam line	K3
Shift requested	200
Shift executed	84.7
Executed cycles	79[1~6,7,8,9,10,11]

**Papers and activities**

[Legend]

- Physics papers published in refereed journal
  - Technical papers
  - ★ PhD theses
  - ◇ Conference and Symposium
  - \* Internal Report and others
- 
- T.Kamae et al.  
Evidence against the Narrow S(1936) in a Measurement of  $\bar{p}p$  Total Cross Section  
Phys. Rev. Lett. 44 (1980) 1439.
  - K.Nakamura et al.  
Search for Narrow Structures in  $\bar{p}p$  Total Cross Section from 395 to 740 MeV/c  
Phys. Rev. D29 (1984) 349.
  - H.Iwasaki et al.  
Measurement of the Real-to-Imaginary Ratio of the  $\bar{p}p$  Forward Amplitude at Beam Momenta  
Between 400 and 730 MeV/c  
Phys. Lett.103B (1981) 247.
  - H.Iwasaki et al.  
Small-Angle  $\bar{p}p$  Elastic Scattering and the Real-to-Imaginary Ratio of the Forward Amplitude  
Between 413 and 715 MeV/c  
Nucl. Phys. A433 (1985) 580.
  - H.Aihara et al.  
Absorption Cross Sections for Antiprotons on Carbon, Aluminum and Copper at 485 and 597  
MeV/c  
Nucl. Phys. A360 (1981) 291.
  - H.Iwasaki et al.  
Multi-wire Proportional Chamber with Bi-dimensional Readout for  $\bar{p}p$  Total Cross-Section  
Measurement  
Japan.J.Appl. Phys. 20(1981) 189.
  - H.Aihara et al.  
A Scintillation Counter Used in a Vacuum Chamber for a Liquid Hydrogen Target  
Nucl. Instr. Meth. 184 (1981) 359.
  - ★ H.Fukuma  
Search for Narrow Resonances in the Total Cross Section for the Antiproton-Proton Scattering  
Hiroshima University, 1980
  - ★ H.Iwasaki  
Measurement of the Real-to-Imaginary Ratio of the  $\bar{p}p$  Forward Amplitude Between 400 and 730  
MeV/c  
University of Tokyo, 1981

- 
- Physics papers published in refereed journal.
  - Technical papers.
  - ★ PhD theses.
  - ◇ Conference and Symposium.
  - \* Internal Report and others.

- ★ Y.Takada  
Measurement of  $\bar{p}p$  Total Cross Section in S-Region  
University of Tokyo, 1981
- ◇ T.Kamae  
Evidence against the Narrow S(1936) in a Measurement of  $\bar{p}p$  Total Cross Section  
Proc. of '79 INS Symposium on Particle Physics in GeV Region, Tokyo, 1979, p.503
- ◇ K.Nakamura  
Search for the Narrow S-Resonance in a Measurement of  $\bar{p}p$  Total Cross Section  
Using Wire Chamber  
Experimental Meson Spectroscopy 1980(AIP Conf. Proc. No.67), BNL, 1980, p.217
- ◇ T.Kamae  
Review of Recent Experiments on Antinucleon-Nucleon, Baryonium, Nucleon-Nucleon and  
Dibaryons  
Proc. of the 9th Int. Conf. on High Energy Physics and Nuclear Structure, Versailles, 1981, (Nucl.  
Phys. A374 (1982)), p.25
- ◇ K.Nakamura  
Search for the S-Resonance at KEK  
Proc. of 1981 INS Symposium of Quark and Lepton Physics, Tokyo, 1981, p.148
- \* K.Nakamura  
Measurement of  $\sigma_{\text{tot}}(\bar{p}p)$  in the Momentum Range Between 400 and 700 MeV/c  
Proc. of the 1979 KEK Summer School, Tsukuba, 1979 (KEK-79-33) p.242

---

● Physics papers published in refereed journal.  
○ Technical papers.  
★ PhD theses.  
◇ Conference and Symposium.  
\* Internal Report and others.