

E68(P-bar PC) M.Kobayashi :
Detection of Discrete γ and π^0 from p-bar p System

Submitted	1979.3.31
Approved	1980.10.14
Beam line	$\pi\mu$
Shift requested	150
Shift executed	165.2
Executed cycles	82[6,7,8], 83[10.11.12.13], 84[1,2,3]

Papers and activities

[Legend]

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

- M. Chiba et al.
Search for Narrow States by Detection of Monochromatic Gamma Rays in p-bar p Annihilation at Rest
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Search for Narrow States by Detection of Monochromatic Gamma Rays in p-bar p Annihilation at Rest
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- M. Chiba et al.
Search for Narrow Peaks in Inclusive π^0 Spectra from p-bar p Annihilation at Rest
Phys.Lett.B202 (1988) 447.
- M. Chiba et al.
Antiproton-Proton Annihilation at Rest into π^0 M and γ M with M= ϕ , η' , ω , ρ^0 , η , and π^0
Phys.Rev. D38 (1988) 2021.
- M. Chiba et al.
 η and η' Production in p-bar p Annihilation at Rest
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- M. Chiba et al.
Measurement of γ rays from Antiproton-Deuterium Annihilation at Rest
Phys.Rev.D44 (1991) 1933.
- M. Kobayashi et al.
Performance of a Scintillator Glass Shower Detector for 20-120 MeV Electrons
Nucl. Instr. Meth. 184 (1981) 399.
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Improvement of the Longitudinal Uniformity in the Response of Long BGO Detectors
Nucl. Instr. Meth. 222(1984) 458.
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An NaI(Tl)-²⁴¹Am High Reliability, Constant Amplitude Light Pulser
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 - Technical papers.
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A NaI(Tl)-²⁴¹Am Light Pulser of Increased Reliability by Eliminating Epoxy Sealing
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Modularized NaI(Tl) Detectors in a Half Barrel Configuration
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- M. Kobayashi et al.
Self-Supporting Cylindrical Multiwire Proportional Chambers with Two Dimensional Read-out
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- M. Chiba et al.
A Large Silicon Detector to Measure the Antiproton Range in a Liquid Hydrogen Target
Nucl. Instr. Meth. A276 (1989) 122.
- M. Takasaki et al.
The Low Energy Antiproton Beam K4 at the KEK 12 GeV Proton Synchrotron
Nucl. Instr. Meth. A242 (1986) 201.
- ★ T. Ohmori
A Search for a Baryonium in p-bar p Annihilation at Rest
KEK Report 89-1, April, 1989, H.
- ◇ M. Kobayashi et al.
An NaI(Tl)-²⁴¹Am Light Pulser for GA in Monitor of Photomultiplier Tubes
Proc. 1981 INS Int'l Symp. on Nuclear Radiation Detectors, Mar.23-26,1981, Tokyo.
- ◇ K. Doi et al.
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Proc. Int'l Workshop on BGO, Princeton, Nov.1982, p.568
- ◇ S. Kurokawa et al.
Characteristics of a Low-Energy Antiproton Beam K4
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- ◇ F. Takeuchi
A p-bar p Experiment and K4 Beam Line at KEK
Proc.KEK Int'l Workshop on Nuclear Physics in GeV Region. KEK, Nov. 13-15, 1984
- ◇ M. Kobayashi et al.
Search for Baryonium by Exclusive Measurement of γ Rays and π^0 in p-bar p Annihilation at Rest
Proc. Meeting on Hadron Spectroscopy, KEK, Feb. 5-6,1985, KEK-Report 85-14, 1986
- ◇ M. Kobayashi and H. Yoshida
Investigation of $J^{PC}=1^{-+}$ Hybrid States in p-bar p Annihilation at Rest
Proc. Meeting on Hadron Spectroscopy, KEK, Feb. 5-6,1985, KEK-Report 85-14, 1986
- ◇ M. Kobayashi (for E68)
Search for Monochromatic Gamma Rays in p-bar p Annihilation at Rest
Proc. Meeting on Few-Body Problems in High and Medium Energy Physics, KEK, Oct.3-5, 1985
- ◇ F. Takeuchi
A Baryonium Search at KEK

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- INS Int'l Symp. on Hypernuclear Physics, August 20-23, 1986, Tokyo
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- Search for Narrow States with Various Decay Topologies - Proc.2nd Int'l Conf. on Hadron Spectroscopy, Tsukuba, 1987
 - ◇ M. Chiba et al.
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Proc.2nd Int'l Conf. on Hadron Spectroscopy, Tsukuba, 1987
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p-bar p Annihilation at Rest into Neutral Mesons
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Design of a Low-Energy Electrostatically-Separated Antiproton Beam K4 at the 12 GeV Proton Synchrotron
KEK-82-4, 1982
 - * M. Kobayashi et al.
Construction of Self-Supporting Cylindrical Mltiwire Proportional Chambers
KEK Report 84-10, 1984
 - * M. Kobayashi et al.
Energy Caliblation of NaI(Tl) and BGO Detectors at 6.13 MeV by using a Pu-C Source
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Search for Baryonia by Exclusive Measurement of γ Rays in p-bar Annihilation at Rest
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Measurement of Monochromatic π^0 and η Mesons in Antiproton-deuterium Annihilation at Rest
KEK Internal 97-247, January 1998

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