E246 J. Imazato
Search for T violation in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ decay

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<th>(1991/6/10)</th>
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<td>1991/7/16</td>
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E470 T. Baker / J. Imazato
Measurement of direct photon emission in $K^+ \rightarrow \pi^+ \pi^0 \gamma$

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Papers and activities

[Legend]
● Physics papers published in refereed journal
○ Technical papers
★ PhD theses
◊ Conference and Symposium
* Internal Report and others

● M. Abe et al.
  Search for T-violating transverse muon polarization in $K^+ \rightarrow \pi^0 \mu^+ \nu$ decay using stopped kaons

● Y. H. Shin et al.
  A kinematically complete measurement of $K^+ \rightarrow \pi^+ \pi^0 \pi^0$ decay

● S. Shimizu et al.
  Test of exotic scalar and tensor couplings in $K^+ \rightarrow \pi^0 e^+\gamma$ decay

● K. Horie et al.
  Measurement of $\Gamma(K_{\mu3})/\Gamma(K_{e3})$ ratio using stopped positive kaons

● M. A. Aliev et al.
  Measurement of direct photon emission in $K^+ \rightarrow \pi^+ \pi^0 \gamma$ decay using stopped kaons

● V. V. Anisimovsky et al.
  First measurement of the T-violating muon polarization in the decay $K^+ \rightarrow \mu^+ \nu\gamma$

● M. Abe et al.
  A new limit of T-violating transverse muon polarization in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ decay

● Physics papers published in refereed journal.
○ Technical papers.
★ PhD theses.
◊ Conference and Symposium.
* Internal Report and others.
S. Shimizu et al.
Measurement of $K^+ \rightarrow \pi^0 \pi^0 e^+ \nu$ decay using stopped positive Kaons

M. Abe et al.
Search for T-violating Transverse Muon Polarization in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay

M. A. Aliiev et al.
New result of the measurement of the direct photon emission in $K^- \rightarrow \pi^- \pi^0 \gamma$ decay

S. Shimizu et al.
Measurement of $K^+ \rightarrow \pi^0 \mu^+ \nu \gamma$ decay using stopped kaons

D.V. Dementyev et al.,
CsI(Tl) calorimeter with photodiode readout for T-violation in $K_{\mu3}$ decay

R.L. Wixted et al.
A 32-channel waveform sampling fastbus module with local DSP processing

A.P. Ivashkin et al.
Scintillating ring hodoscope with WLS fiber readout

S. Sekikawa et al.
A Fast DSP based calorimeter hit scanning system

T. Ikeda et al.
High-precision magnetic field mapping with a three dimensional Hall probe for a T-violation experiment in $K_{\mu3}$ decay

Y. Kudenko et al.,
Design and performance of the readout electronics for the CsI(Tl) detector

D.V. Dementyev et al.
CsI(Tl) photon detector with PIN photodiode readout for a $K_{\mu3}$ T-violation experiment

J.A. Macdonald et al.
Apparatus for a search for T-violating Muon polarization in stopped-kaon decays

S. Shimizu
Precise Measurement of $K^- \rightarrow \pi^0 e^+ \nu$ Form Factors using Stopped $K^+$

Y. Igarashi;
Measurement of the form factors in $K^- \rightarrow \pi^0 \mu^- \nu$ decay
University of Tsukuba, 1997.

T. Ikeda
Measurement of Muon In-Plane Polarization in the Decay of $K^- \rightarrow \pi^0 \mu^- \nu$
University of Tsukuba, 1998.

T. Yokoi
Search for T-violating Muon Polarization in $K^+ \rightarrow \pi^0 \mu^+ \nu$ decay
University of Tokyo, 1998.

C. Mindas
Search for T Violation in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ decay

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PhD theses.

Conference and Symposium.

Internal Report and others.

★ H.C. Huang
Search for T-violating Muon Polarization in K⁺ → γμ⁺ν Decay
National Taiwan University, 1998.

★ Y.H. Shin
Kinematically Complete Measurement of K⁺ → π⁺π⁺π⁻ Decays
Yonsei University, 1998.

★ A.P. Ivashkin
Search for T violation in the K⁺ → π⁺μ⁺ν decay using a CsI(Tl) calorimeter as a neutral pion detector (in Russian)

★ T. Baker
Measurement of scattering length using Kπ3 decay
University of Saskatchewan, 1999.

★ O.V. Mineev
Development and design of analogue electronics and trigger system in the experiment to measure T-violating muon polarization in positive kaon decays (in Russian);

★ K. Horie
Measurement of Γ(K_π3)/Γ(K_e3) ratio using stopped positive kaons
Osaka University, 2002.

★ M. Khabibullin
Measurement of T-violating muon polarization in the decay of positive kaons and limits on the parameters of non-standard models of CP violation (in Russian)

★ M. Aliev
Measurement of T-violating muon polarization in the decay of positive kaons and limits on the parameters of non-standard models of CP violation (in Russian)
Institute for Nuclear Research, Russian Academy of Sciences, 2006

◇ J. Imazato
Search for T violation in the K⁺ → π⁺μ⁺ν decay

◇ Y. Kuno
Muon Polarization in K⁺ Decays

◇ Y. Kuno
Search for Time Reversal Violation in K⁺ Decays

◇ Y. Kuno
Search for Time Reversal Violation in K⁺ → π⁺μ⁺ν Decay

◇ J.A. Macdonald
Search for T-violation in K⁺ Decays

◇ P. Gumplinger
Measuring the Muon Polarization in K⁺ → π⁺μ⁺ν the E246 Detector at KEK

◇ Y. Kuno
Search for Time reversal Violation in K and B Decays
Physics, 32 (1994) 1015.

- J. Imazato
  T violation Test $K^+ \rightarrow \pi^0 \mu^+ \nu$

- H.M. Shimizu
  Search for T-violation in $K^+ \rightarrow \pi^0 \mu^+ \nu$

- Y. Kuno
  Search for T-violation in $K^+$ Decays

- P. Depommier
  An Experiment to Measure the Transverse muon Polarization in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay

- M. Chapman
  Search for T-violation in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay
  APR96 Meeting of the American Physics Society, May 1996.

- Y.G. Kudenko
  T-violating muon polarization in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay

- J. Imazato
  Search for T-violation in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay
  Proceedings of the 1996 Workshop on Heavy Quarks at Fixed Target*, St.Goar, October 3-6, 1996, p.431

- Y. Kuno
  Search for T-violation in $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay
  Proceedings of the Third Workshop on Particle Physics Phenomenology, Taipei, November 14-17, 1996, p.144

- Y. Kudenko
  High resolution CsI(Tl) calorimeter with PIN photodiode readout
  Proceeding of the KEK Workshop on Scintillation Detectors, April 28-30, 1997, p.156

- M. Hasinoff
  Search for T-violation in $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay
  Proceedings of the International Conference of "Intersections between Particle and Nuclear Physics", Montana, June, 1997

- M. Aoki
  Search for T-violation in $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay

- M. Hasinoff
  Search for T-violation in $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay
  Proceedings of the DNP97 Meeting of the American Physical Society, Whisler, October 5-8, 1997

- M. Aoki
  Search for T-violation in $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay
  Proceedings of the International Workshop on kaon, muon, Neutrino Physics and Future, KEK, October 31- November 1, 1997

- M. P. Grigorjev et al.
  Data Acquisition and On-line Visualization System in the Experiment E246 at KEK

- Y. Kuno et al.

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○ Conference and Symposium.
* Internal Report and others.
Search for Time-Reversal Violation in K\(^+\) → π\(^0\)μ\(^+\)ν Decay

◊ J. Imazato
  T Violation in K\(^+\) → π\(^0\)μ\(^+\)ν at KEK

◊ M. Aoki
  T Violation in K\(^-\) (KEK-PS-E246)

◊ M. Blecher et al.
  Test of Time Reversal Invariance in the K\(^+\) → π\(^0\)μ\(^+\)ν Decay

◊ G. Y. Lim
  Transverse muon polarization in K\(^+\)μ\(^+\) decay

◊ A. Ivashkin et al.
  New result on measurement of T-violating muon polarization in K\(^+\)µ\(^+\) decay

◊ P. Depommier et al.
  Search for non-standard time-reversal violation

◊ C. Rangacharyulu
  Search for T-violation in stopped K\(^-\) decay

◊ P. Depommier
  Search for non-standard time-reversal violation in K\(^+\)µ\(^+\) decay
International Conference on Quark Nuclear Physics, Adelaide, Australia, Feb.21-25, 2000. [to be published in Nuclear Physics A].

◊ P. Depommier
  Search for time-reversal violation in the K\(^+\) → π\(^0\)µ\(^+\)ν decay
V\(^{1}\)th International Conference on Few-Body Problems in Physics, Taipei, Taiwan, March 6-10, 2000. [to be published in Nuclear Physics A].

◊ M. Khabibullin et al.
  New limit on T-violating muon polarization in the decay K\(^-\) → π\(^0\)μ\(^+\)ν

◊ Y. Kuno
  Test of Time Reversal Invariance in K\(^+\)µ\(^+\) decay

◊ M. Hasinoff
  A Test of Time Reversal Invariance in Stopped K\(^+\) Decay

◊ M. Aoki et al.
  Search for T-violating Muon Polarization in K\(^+\) → π\(^0\)μ\(^+\)ν decay
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- J. Imazato
  Branching ratio measurement of $K^+ \rightarrow \pi^0 \mu^+ \nu$ direct emission
  Kaon Decay Workshop for Young Physicists, Tsukuba, Japan, February 14-16, 2001.

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  Search for T Violation $K^+ \rightarrow \pi^0 \mu^+ \nu$ in at KEK E246

- M. Khabibullin et al.
  New limit on T-violating Parameters in Kaon Decays

- J. Imazato
  Kaon Physics at KEK

- Y. Kudenko
  Further search for T violation in the deacy $K^+ \rightarrow \pi^0 \mu^+ \nu$
  16th International Conference on Particles and Nuclei, Osaka, Japan, September 30-October 4, 2002.

- K. Horie
  Search for T-violating transverse muon polarization in $K^+ \rightarrow \pi^0 \mu^+ \nu$ decay using stopped kaons
  KEK phenomenology workshop, March 1-3, 2004, KEK.

- J. Imazato
  Result of T-violating Muon Polarization Measurement in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ Decay

- C. Rangacharyulu
  Search for T-violation in $K\mu^3$ Decays
  Physics at Meson Factories (Dafne2004, oral), Frascati, Italy, June 7-11, 2004

- S. Shimizu
  New limit on the T-violating transverse muon polarization in $K^+ \rightarrow \pi^0 \mu^+ \nu (K\mu^3)$ decay
  Second Joint Meeting of the Nuclear Physics Divisions of APS and JPS Hawaii 2005 (HAW05), Hawaii, September 18-22, 2005

- M. Hasinoff
  A Test of Time Reversal Invariance in Stopped Kaon Decay
  PANIC05, Santa Fe, NM, Oct 24, 2005, to be published in AIP conference proceedings

- P. Depommier
  Search for Time-Reversal Violation in Kaon Decays
  5th Conference on Nuclear and Particle Physics, Cairo, Egypt, November 19-23 2005

* J. Imazato et al.
  Search for T-violating Muon Polarization in XXX Decay Using Stopped Kaons

* Y. Kudenko and J. Imazato,
  Performance of a High-Resolution CsI(Tl)-PIN Readout Detector

* T. Baker et al.
  Branching ratio of $K^+ \rightarrow \pi^+\pi^0\gamma$ direct emission

* J. Imazato
  Search for Time Reversal Invariance Violation in the $K^+ \rightarrow \pi^0 \mu^+ \nu$ (in Japanese).
  High Energy News Vol.22 Number 5, April /May 2004

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* Internal Report and others.