

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

Submitted	(1991/6/10)
Approved	1991/7/16
Beam line	K5
Shift requested	450 +200 extension
Shift executed	446 +142 extension
Executed cycles	(94[7,8,10], 95[4,5,6,7,8]), 95[11], 96[1,2-1,2-3,3,4], 97[1,3-1,3-2,4-1,4-2], 98[2,3,4], 99[3-1,3-3], 00[5]

**E470 T. Baker / J. Imazato**  
**Measurement of direct photon emission in  $K^+ \rightarrow \pi^+ \pi^0 \gamma$**

Received	2000/6/23
Approved	2000/7/25
Beam line	K5
Shift requested	80
Shift executed	96.5
Executed cycles	01[3-1,3-2]

### 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  
Phys. Rev. Lett. 83 (1999) 4253.
- Y. H. Shin et al.  
A kinematically complete measurement of  $K^+ \rightarrow \pi^+ \pi^0 \pi^0$  decay  
Eur. Phys. J. C12 (2000) 627.
- S. Shimizu et al.  
Test of exotic scalar and tensor couplings in  $K^+ \rightarrow \pi^0 e^+ \gamma$  decay  
Phys. Lett.. B495 (2000) 33.
- K. Horie et al.  
Measurement of  $\Gamma(K_{\mu 3})/\Gamma(K_{e 3})$  ratio using stopped positive kaons  
Phys. Lett. B513 (2001) 311.
- M. A. Aliev et al.  
Measurement of direct photon emission in  $K^+ \rightarrow \pi^+ \pi^0 \gamma$  decay using stopped kaons  
Phys. Lett. B554 (2003) 7.
- V. V. Anisimovsky et al.  
First measurement of the T-violating muon polarization in the decay  $K^+ \rightarrow \mu^+ \nu \gamma$   
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A new limit of T-violating transverse muon polarization in the  $K^+ \rightarrow \pi^0 \mu^+ \nu$  decay

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- Phys. Rev. Lett. 93 (2004) 131601-1
- S. Shimizu et al.  
Measurement of  $K^+ \rightarrow \pi^0 \pi^0 e^+ \nu$  decay using stopped positive Kaons  
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Eur. Phys. J. C46 (2006) 61-67
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High-precision magnetic field mapping with a three dimensional Hall probe for a T-violation experiment in  $K_{\mu 3}$  decay  
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Apparatus for a search for T-violating Muon polarization in stopped-kaon decays  
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Search for T-violating Muon Polarization in  $K^+ \rightarrow \pi^0 \mu^+ \nu$  decay  
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  - ★ C. Mindas  
Search for T Violation in the  $K^+ \rightarrow \pi^0 \mu^+ \nu$  decay

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● Physics papers published in refereed journal.

○ Technical papers.

★ PhD theses.

◇ Conference and Symposium.

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- Princeton University, 1998.
- ★ H.C. Huang  
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National Taiwan University, 1998.
  - ★ Y.H. Shin  
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  - ★ T. Baker  
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High Energy News Vol.22 Number 5, April /May 2004

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