

## E162 (CP) K. Miyake/N. Sasao Experimental Study of Rare $K_L$ Decays

Submitted	1987.2
Approved	1987.10.19
Beam line	K0
Shift requested	400
Shift executed	951.4
Executed cycles	(87[13]), 87[14], 88[1,3,6,12], 89[7,8], 90[7,8,9,10], 91[2,3,5,7,8,9,10], 92[3,6,7,10], 93[5,7,10,11,12], 94[3,4,7,8,9], 95[2,3,7,9,10,12], 96[1,2-2,4,5,6,7,8,9], 97[2-1,2-2]

### Papers and activities

[Legend]

- Physics papers published in refereed journal
  - Technical papers
  - ★ PhD theses
  - ◇ Conference and Symposium
  - \* Internal Report and others
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- T. Nomura et al.  
Experimental search for the decay mode  $K_L \rightarrow \pi^+ \pi^- e^+ e^-$   
Phys. Lett. B 408 (1997) 445.
  - N. Sasao  
K physics at KEK with the present 12-GeV and future 50-GeV PS  
Nucl. Phys. B (Proc. Suppl.) 59 (1997) 199.
  - Y. Takeuchi et al.  
Observation of the decay mode  $K_L \rightarrow \pi^+ \pi^- e^+ e^-$   
Phys. Lett. B 443 (1998) 409.
  - K. Murakami et al.  
Experimental search for the decay mode  $K_L \rightarrow \pi^0 \gamma e^+ e^-$   
Phys. Lett. B 463 (1998) 333.
  - H. Kobayashi et al.  
Test of BaF<sub>2</sub> Scintillators Coupled to a Photomultiplier with a CsTe Photocathode  
Nucl. Instr. Meth. A 270 (1988) 106.
  - T. Yamashita et al.  
Measurements of the Electron Drift Velocity and Positive-Ion Mobility for Gases Containing CF<sub>4</sub>  
Nucl. Instr. Meth. A 283 (1989) 709.
  - T. Yamashita et al.  
Measurements of Electron Drift Velocities and Positive Ion Mobilities for Gases Containing CF<sub>4</sub> II  
Nucl. Instr. Meth. A 317 (1992) 213.
  - H. Kurashige et al.  
A New Data Acquisition System Adopting Pipelined Scheme for TKO BOX  
IEEE Transactions on Nuclear Science Vol.4 Aug. 1994
  - Y. Takeuchi et al.  
A useful method to monitor outputs from a pulsed light source and its application to rate effect studies in a photomultiplier  
Nucl. Instr. Meth. A 430 (1999) 447.
  - ★ K. Murakami

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

- Experimental Search for the Decay  $K_L \rightarrow \pi^0 \gamma e^+ e^-$   
 Kyoto University, 2001
- ★ Y. Takeuchi  
 Observation of the Decay Mode  $K_L \rightarrow \pi^+ \pi^- e^+ e^-$   
 Kyoto University, 2000
  - ★ T. Nomura  
 Experimental Search for the Decay Mode  $K_L \rightarrow \pi^+ \pi^- e^+ e^-$   
 Kyoto University, 1998
  - ◇ N. Sasao  
 Observation of the decay mode  $K_L \rightarrow \pi^+ \pi^- e^+ e^-$   
 Talk presented at the SLAC Summer Institute, Aug. 1997
  - ◇ T. Nomura  
 KEK E162 Results on  $K_L \rightarrow \pi^+ \pi^- e^+ e^-$   
 Conference on Kaon Physics (Kaon 99), Chicago, Illinois, 21-26 Jun 1999
  - \* H. Kobayashi et al.  
 Pure CsI ; New Fast Scintillator for  $\gamma$ -Detectors  
 KUNS-900 (1987)
  - \* H. Kobayashi et al.  
 Test of a Pure-CsI  $\gamma$ -Detector with an Electron Beam up to 1.2GeV  
 KUNS-910 (1988)

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