

E137 (KL) T.Inagaki
Search for Rare Decay $K_L \rightarrow \mu e$

Submitted	1985.2.13, (extension:1989.5.21)
Approved	1985.10.30, (extension:1989.7.13)
Beam line	K0
Shift requested	345+300
Shift executed	817.6
Executed cycles	86[6,7,8,9,10,11,12,13], 87[1,3,5,6,8,9,10,11,12,13,14], 88[1,3,5,6,7,8,9,10,11,12,13,14], 89[1,2,3,5,6,7,8,9,10,11], 90[1]

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. Inagaki et al.
Search for $K_L \rightarrow \mu e$ and $K_L \rightarrow ee$ Decays
Phys.Rev.D40 (1989) 1712.
 - T. Akagi et al.
Search for the Rare Decays $K_L^0 \rightarrow \mu e$ and $K_L^0 \rightarrow ee$
Phys.Rev.Lett.67 (1991) 2614.
 - T. Akagi et al.
Measurement of the Branching Ratio of the Decay $K_L^0 \rightarrow \mu\mu$
Phys.Rev.Lett.67 (1991) 2618.
 - T. Akagi et al.
Estimation of the Branching Ratio of the Decay $K_L^0 \rightarrow e^+e^-e^+e^-$ from the $K_L^0 \rightarrow e^+e^-X$ Process
Phys.Rev.D47 (1993) 2644.
 - T. Akagi et al.
Experimental study of the Rare Decays $K_L^0 \rightarrow \mu e$, $K_L^0 \rightarrow ee$, $K_L^0 \rightarrow \mu\mu$ and $K_L^0 \rightarrow eeee$
Phys. Rev. D51 (1995) 2061 - 2089.
 - ★ M. Kuze
Search for Rare Decays $K_L \rightarrow \mu e$ and $K_L \rightarrow ee$
University of Tokyo, 1990.
 - ★ T. Akagi
Experimental Study on the Rare Decays $K_L \rightarrow \mu e$ and $K_L \rightarrow ee$
Tohoku University, 1992.
 - ★ T. Komatsubara
Measurement of the Branching Ratio of the Decay of the Long-Lived Neutral Kaon into Two Muons
University of Tokyo, 1992.
 - ◇ T. Inagaki et al.
The Status of E137 at KEK: An Experiment to search for $K_L \rightarrow \mu e$ and ee
Proceedings, Intensity frontier physics, Tsukuba 1989, p.33-42.
 - ◇ Y. Yoshimura
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Nucl.Phys.B13 (1990) 576.

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

- ◇ S. Yamamoto
Search for the $K_L^0 \rightarrow \mu e$ and $K_L^0 \rightarrow ee$ Decays*
Proc.of PANIC 90, Nucl.Phys.A527 (1991) 731c.
- ◇ M. Kuze et al.
Search for $K_L \rightarrow \mu e$, ee and $\mu\mu$ decays at KEK
in Rare Decays of Light Mesons, Editions Frontieres, 1990.
- ◇ T. Kishida et al.
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Proceedings, High energy physics, vol. 2 p.1059-1062, Singapore 1990.
- ◇ T. Shinkawa et al.
Present status and future plan of $K_L^0 \rightarrow \mu e$ experiment at KEK
Proceedings, Physics with high intensity hadron accelerators p.31-40, Tokyo 1990.
- ◇ T. Inagaki et al.
Experimental study on the rare decays $K_L^0 \rightarrow \mu e$, ee and $\mu\mu$
for Joint International Lepton Photon Symposium at High Energies (15th) and European Physical Society Conference on High-energy Physics, Geneva, Switzerland, 25 Jul - 1 Aug 1991. Published in Lepton-Photon Symposium, vol. 1* 586-587, Geneva 1991.
- ◇ T. Komatsubara et al.
Study of the rare decays $K_L^0 \rightarrow \mu e$, $K_L^0 \rightarrow ee$ and $K_L^0 \rightarrow \mu\mu$ at KEK
27th Rencontres de Moriond on Electroweak Interactions and Unified Theories, Les Arcs, France, Mar 15-22, 1992. Published in Moriond 1992: Electroweak: p.181-184.
- * 豊浦 潤
中性粒子稀崩壊検出用 Hodoscope の研究
修士論文：東京大学 1988年.
- * 小松原 健
中性 K 中間子の稀崩壊実験におけるドリフトチェンバー系の解析
修士論文：東京大学 1989年

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