E391a T. Inagaki
Measurement of the $K_L \to \pi^0\nu\bar{\nu}$ Decay

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Submitted</td>
<td>1996.6.7</td>
</tr>
<tr>
<td>Approved</td>
<td>2001.7.11</td>
</tr>
<tr>
<td>Beam line</td>
<td>K0</td>
</tr>
<tr>
<td>Shift requested</td>
<td>300 + 100 extension + 100 extension</td>
</tr>
<tr>
<td>Shift executed</td>
<td>269 preparation + 230 data acquisition + 259 extension</td>
</tr>
<tr>
<td>Executed cycles</td>
<td>(00[1,2-3,6], 01[4-1,4-2], 02[3-1,4-2,4-2]), 03[6-1,6-2], 04[1,2,5-1,5-2,5-3], 05[1,4-2]</td>
</tr>
</tbody>
</table>

Papers and activities

[Legend]

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

● J. K. Ahn et al.
New limit on the $K_L^0 \to \pi^0\nu\bar{\nu}$-bar decay rate

● J. Nix et al.
First Search for the $K_L^0 \to \pi^0\pi^0\nu\bar{\nu}$-bar

● J. K. Ahn et al
Search for the Decay $K_L^0 \to \pi^0\pi^0\nu\bar{\nu}$

○ T. Inagaki et al.
Development of CeF-3 crystal for high-energy electromagnetic calorimetry

○ H. Watanabe et al.
Scintillator-Lucite sandwich detector for n/γ separation in GeV energy region

○ M. Itaya et al.
Development of a new photomultiplier tube with high sensitivity for a wavelength-shifter fiber readout

○ H. Watanabe et al.
Neutral beam line to study $K_L^0 \to \pi^0\nu\bar{\nu}$-bar decay at the KEK 12-GeV proton synchrotron

○ M. Doroshenko et al.
Undoped-CsI calorimeter for the $K_L^0 \to \pi^0\nu\bar{\nu}$-bar experiment at KEK-PS

○ S. Ajimura et al.
Measurement of the photon detection inefficiency of electromagnetic calorimeters at energies below 1-GeV

★ H. Watanabe
K0 beam line for the study of the $K_L \to \pi^0\nu\bar{\nu}$-bar decay
Saga University 2001.
© M. Dorochenko
A measurement of $K_L \rightarrow \pi\nu\nu$
The Graduate University for Advanced Studies, March 2005
◇ K. Abe et al.
Status of the $K_L^0 \rightarrow \pi^0\nu\bar{\nu}$-bar experiment at KEK (E391a)
◇ H. Watanabe et al.
A study of the separation of neutron from gamma up to 12-GeV
Kaon Decay Workshop for Young Physicists, Tsukuba, Japan, 14-16 Feb 2001.
Published in *Tsukuba 2001, Kaon decay physics* 299-312
◇ M. Yamaga et al.
$K_L \rightarrow \pi^0\nu\bar{\nu}$-bar experiment at KEK 12-GeV PS, E391a
◇ Y. Sugaya et al.
DAQ system for the $K_L \rightarrow \pi^0\nu\bar{\nu}$-bar search at KEK-PS
◇ T. Inagaki
The first Experiment for $K_L \rightarrow \pi\nu\nu$ Decay
SUSY04, Tsukuba, June 17-23, 2004
◇ G.Y. Lim
Status of E391a
ICHEP2004, Beijing, August 16-22, 2004
* K. Abe et al.
Status of the $K_L \rightarrow \pi^0\nu\nu$-bar Experiment at KEK (E391a)
* T. Inagaki
Status of the $K_L \rightarrow \pi^0\nu\nu$-bar Experiment (KEK-E391a), Report on the engineering run
* T. Inagaki et al.
Status of the $K_L \rightarrow \pi^0\nu\nu$-bar Experiment (KEK-E391a), Report on the detector construction