E176 (H) K. Imai
Search for $\Lambda\Lambda$ Hypernuclei and/or the H Particle

<table>
<thead>
<tr>
<th>Submitted</th>
<th>1987.5.18</th>
</tr>
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<td>Approved</td>
<td>1987.6.15</td>
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<tr>
<td>Beam line</td>
<td>K2</td>
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<td>Shift requested</td>
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<td>Shift executed</td>
<td>215.4</td>
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<td>Executed cycles</td>
<td>(87[10,11]), 87[14], 88[1,3,5,6,7,8,9,10,11,13,14], 89[1,2]</td>
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</tbody>
</table>

Papers and activities

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

● A. Konaka et al.
  Plastic Scintillating Fibers for Track Detection

● S. Aoki et al.
  Search for the H Dibaryon in ($K^-$, $K^+$) Reactions

● S. Aoki et al.
  Evidence of weak decay of heavy double hypernuclei

● S. Aoki et al.
  Direct observation of sequential weak decay of a double hypernucleus

● T. Iijima et al.
  ($K^-$, $K^+$) Reaction on Nuclear Targets at $P_{K^-}$ = 1.65 GeV/c

● S. Aoki et al.
  Production of Two Single-$\Lambda$ Hypernuclei by $\Xi^-$ Capture

● S. Aoki et al.
  Production of a twin single hypernuclei and the $\Xi^-$-nuclear interaction

● S. Aoki et al.
  Quasifree p($K^-$, $K^+$)$\Xi^-$ reaction in nuclear emulsion

★ T. Nalano
  Search for H-dibarion in the ($K^-$, $K^+$) reaction
  Kyoto university, January 1991

★ H. Tajima
  $\Xi^-$ 粒子の原子核吸収反応におけるdouble hyper 核生成の研究 (in Japanese)
  Nagoya university, June 1991

★ S. Nakanishi
  Double hyper 核のカスケード崩壊の直接観測 (in Japanese)
Nagoya University, June 1991
 ★ S. H. Chung
 The observation of S=−2 hypernucleus
 Gyeongsang National University, August 1993
 ★ C. S. Yoon
 Nuclear Capture of Ξ Hyperons
 Gyeongsang National University, August 1993
 ★ N. Yasuda
 Quasi-free (K−, K+) reactions in nuclear emulsion
 Toho university, March 1996
 ◇ M. Ieiri et al.
 The Tuning of the KEK-PS K2 Beam Line for the Hybrid-Eulsion Experiment
 17th INS Int. Symp. on Nucl. Phys. at Intermediate Energy
 Nov.15-17, 1988, Tokyo
 ◇ K. Imai
 Quark and Nuclear Matter with Strangeness
 PANIC XII (The 12th Int. Conf. on Particle and Nuclei), MIT, USA, June 24-29, 1990, KUNS 1034
 ◇ K. Imai
 S=−2 Nuclei Studied by Eulsion-Counter Hybrid Experiment
 The Int.Symp. on Hypernuclear and Strange Particle Physics, Shimoda, Japan, Dec.,1991,
 Nucl.Phys.A547 (1992) 199c, KUNS 1137
 ◇ K. Imai
 Search for Double Strangeness Systems
 KUNS 1156