

## E373 K.Nakazawa

### Study of Double Strange Nuclei by Emulsion-Scintillating fiber Hybrid Methods

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## Papers and activities

[Legend]

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

- K. Nakazawa  
Study of Double Strangeness Nuclei by an Emulsion-Scintillating Fiber Hybrid Method  
Nucl. Phys. A 585(1995) 75c.
- K. Nakazawa  
Strangeness -2 studies at KEK  
Nucl. Phys. A 639(1998) 345c.
- J.K. Ahn et al.  
Study of Double-Strangeness Nuclei with Hybrid-Emulsion Method  
Nucl. Phys. A 670(2000) 289c.
- A. Ichikawa et al.  
Production of twin  $\Lambda$ -hypernuclei from  $\Xi^-$  hyperon capture at rest.  
Phys. Lett. B500 (2001) 37.
- H. Takahashi et al.  
Observation of a  ${}^6_{\Lambda\Lambda}\text{He}$  Double Hypernucleus  
Phys. Rev. Lett. 87 (2001) 212502.
- A. Ichikawa et al.  
Scintillating microfibers as high-resolution tracking detector for hybrid-emulsion experiment  
Nucl. Instr. Meth. A 417 (1998) 220.
- H. Takahashi et al.  
Scintillating-fiber-block detector for studying double-strangeness nuclei  
Nucl. Instr. Meth. A483 (2002) 689.
- ★ A. Ichikawa  
Study of S=-2 Nuclear Systems with Hybrid Emulsion Method  
Kyoto University, 2001.
- ★ H. Takahashi  
Study of Double-Hypernuclei with Hybrid Emulsion Method  
Kyoto University, 2003.
- ◇ KEK-PS E373 collaborations  
An Experiment for S=2 Nuclei by Hybrid Emulsion Method  
JHP-Supplement-22, Dec. (1996) 68-71.
- ◇ K. Nakazawa et al.  
Possibility to detect the H-nuclei by  $\Xi^-$  capture reaction  
JHF-REP-6, Sept. (1997) 86-87.

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  - \* Internal Report and others.

- ◇ A. Ichikawa et al.  
Double Strangeness Nuclei  
JHF-REP-6, Sept. (1997) 88-91.
- ◇ H. Takahashi et al.  
Current Status of an Experiment of KEK-PS E373  
JHF-98-8, Jan. (1999) 30-33.
- ◇ K. Nakazawa et al.  
R & D of emulsion handling for PS-E373(KEK)  
JHF-98-8, Jan. (1999) 34-35.
- ◇ K. Nakazawa  
Study of Double- $\Lambda$  hypernuclei  
Proc. of The 1<sup>st</sup> International Conference on Nuclear Physics; Dec.10-12, 2003, Mandalay University, Myanmar, shall be printed.
- ◇ K. Nakazawa  
The experimental production of S=-2 systems  
Proc. of The 8th International Conference on Hypernuclear & Strange Particle Physics (HYP2003); Oct.14-18, 2003, Jefferson Lab, Newport News, shall be printed.
- ◇ K. Nakazawa  
The nuclear double-strangeness achievements and perspectives  
Proc. of The XVIIth International workshop on High Energy Physics and Quantum Field Theory (QFTHEP2003); Sep.4-11, 2003, Samara-Saratov, Russia, shall be printed.
- ◇ H. Takahashi  
Observation of Double-Hypernuclei and  $\Lambda$ - $\Lambda$  Interaction  
Proc. of the XVI<sup>th</sup> international Conference on Particle and Nuclei (PANIC02) (ed. by Toki, et al.); Osaka, Nucl. Phys. A721 (2003) pp.951c-954c.
- ◇ K. Nakazawa  
Systematic Study of Double Strangeness System by Emulsion-Counter Hybrid Method  
Proc. of 2<sup>nd</sup> Asia Pacific Conference on Few-Body Problems in Physics (ed. by H.Q.Song et al.); Shanghai, World Scientific, Modern Physics Lett. A18, No. 2-6, (2003) pp.116-119.  
Soryushiron-Kenkyu Vol.106 No.2 (2002) pp. B32-B34.
- ◇ K. Nakazawa  
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- ◇ K. Nakazawa  
Doubly strange nuclei by a hybrid-emulsion experiment E373 at KEK  
Proc. of Int'l Symp. on Hadron & Nuclei, Seoul, AIP press, CP594 (2001) pp.180-188.
- ◇ A. Ichikawa  
Study of Double-Strangeness Nuclei with Hybrid-Emulsion Method (KEK-PS E373)  
Proc. of The 7th International Conference on Hypernuclear & Strange Particle Physics (HYP2000); Oct.23-27, 2000, Torino, Italy, Nucl. Phys. A691 (2001) pp.246c-249c.
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An experiment to study S=-2 nuclear system; PS-E373 (KEK)  
Proc. of the APCTP Workshop (SNP99) (ed. by I.T.Cheon, S.W.Hong & T.Motoba); Seoul, World Scientific [Strangeness Nuclear Physics] (2000) pp.193-198.
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- ◇ A. Ichikawa  
Study of Double-Strangeness Nuclei with Hybrid-Emulsion Method (KEK-PS E373)  
Proc. of the KEK-Tanashi International Symposium on Hadrons and Nuclei; Tokyo, Nucl. Phys. A670 (2000) pp.289c-292c.

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  - Technical papers.
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  - ◇ Conference and Symposium.
  - \* Internal Report and others.

\* J.K. Ahn et al.

Possibility for Charge and/or Isotope Identification of Nuclear Fragments from a Decay of S=-2  
Nuclear System in Nuclear Emulsion  
Annual Report Tandem V.D.G. Lab. Kyoto-U, (1997)

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  - \* Internal Report and others.