## E325 H. Enyo Study of Chiral Property of Dense Nuclear Matter through Measurement of Meson Mass Modification in Medium

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## **Papers and activities**

[Legend]

- Physics papers published in refereed journal
- Technical papers
- $\star$  PhD theses
- ♦ Conference and Symposium
- Internal Report and others

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- T. Tabaru et al. Nuclear mass number dependence of inclusive production of ω and φ mesons in 12-GeV p + A collisions

Phys. Rev. C74 (2006) 025201

## R. Muto et al Evidence for in-medium modification of phi meson at normal nuclear density Phys. Rev. Lett. 98, 042501 (2007)

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<sup>•</sup> Physics papers published in refereed journal.

Technical papers.

<sup>★</sup> PhD theses.

 $<sup>\</sup>diamond$  Conference and Symposium.

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Observation of  $\rho/\omega$  Meson Modification in Nuclear Matter Kyoto University, 2002. M. Sekimoto ★ Development of Spectrometers for High-Energy Nuclear Studies Tokyo University of Science, March 2003 M. Naruki Experimental signature of medium modifications for  $\rho$  and  $\omega$  mesons in 12 GeV p+A reactions Kyoto University, March 2006. T. Tabaru  $\star$ Production of  $\omega$  and  $\phi$  mesons in 12-GeV p + A Interaction Measured in e<sup>+</sup>e<sup>-</sup> Decay Mode Kyoto University, November 2006 ★ R. Muto Evidence for in-medium modification of the  $\phi$  meson at normal nuclear density Kyoto University, March, 2007 F. Sakuma  $\star$ Nuclear-matter modification of decay widths in the  $\phi \rightarrow e^+e^-$  and  $\phi \rightarrow K^+K^-$  channels studied in 12GeV p+A reactions Kyoto University, May 2007  $\Diamond$ H. En'yo  $\phi$  Decay in Nuclear Matter Proc. U.S.-Japan Seminar "Properties & Interactions of Hyperons", October 25-28, 1993, Maui Hawaii, World Scientific, Edited by B.F. Gibson, P.D. Barnes and K.Nakai (1994) p.237  $\Diamond$ S. Yokkaichi et al. 13th International Conference on Ultra-relativistic Nucleus-Nucleus Collisions (Quark Matter 97), Tsukuba, Japan, 1-5 Dec 1997. Nucl. Phys. A638 435-438, 1998.  $\Diamond$ K. Ozawa et al. Measurements of Nuclear Media Modification on  $\Phi \rightarrow e^+e^-$  Decays at KEK-PS Contribution paper at Int'l Workshop  $e^+e^-$  Collisions From  $\phi$  to J/ $\psi$ , Novosibirsk, Russia, March 1-5, 1999, Proceedings 174-176 edited by G.V.Fedotovich and S.I.Redin  $\diamond$ H. En'yo et al. Nuclear production of  $\phi$  meson at KEK Proc. of the 2nd KEK-Tanashi International Symposium on "Hadron and Nuclear Physics with Electromagnetic Probes", KUNS-1637  $\diamond$  H. En'vo et al. Study of Chiral Property of Nuclear Matter through the Measurements of  $\phi$  Meson Decays Physics of Hadrons and Nuclei, 14-17 December 1998, Sanjo Conference Hall, University of Tokyo, Tokyo, Japan. Nucl. Phys. A670 (2000) 182c.  $\Diamond$ K. Ozawa et al. Measurements of Mass Modification of Vector Mesons in Nuclear Matter YITP Workshop On Possible Existence Of The Sigma Meson And It Implications To Hadron Physics (Sigma Meson) 2000.6.12-14, published in their proceedings. S. Yokkaichi et al. Observation of Meson Modification in Nuclear Matter at KEK-PS International Nuclear Physics Conference (INPC 2001) 2001.7.30-8.05 Berkeley, CA, USA, AIP Conf. Proc. 610 (2002) 551-555  $\Diamond$ H. En'yo et al. Study of Chiral Property of Nuclear Matter through the Measurements of  $\phi$  Meson Decays Invited talk at the KEK-Tanashi International Symposium on "Physics of Hadrons and Nuclei", 14-17 December 1998, Sanjo Conference Hall, University of Tokyo, Tokyo, Japan. Published in Nucl.Phys.A670 182c-185c, 2000. K. Ozawa et al.  $\Diamond$ Modification of Vector Mesons in Nuclear Matter Measured in 12-GeV P + A reactions at

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Akita, Japan January 9-14, 2000.

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Measurements of in-medium decay of vector mesons at KEK-PS Invited talk at Hawaii 2001, First Joint Meeting of the Nuclear Physics of APS and JPS, October 17-20, 2001, Wailea, Maui, Hawaii.

<sup>•</sup> Physics papers published in refereed journal.

<sup>○</sup> Technical papers.

 $<sup>\</sup>star$  PhD theses.

 $<sup>\</sup>diamond$   $\,$  Conference and Symposium.

<sup>\*</sup> Internal Report and others.