

# Elmhurst College

## Earl C. Swallow Recent Publications

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Limit on Scalar and Tensor Couplings in  $K_{e3}$  Decays” is under review within the KTeV Collaboration for submission to Physical Review Letters.

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “ $\Xi^0$  and anti- $\Xi^0$  Polarization Measurement at 800 GeV/c” is under review within the KTeV Collaboration for submission to Physical Review Letters.

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Search for the Decay  $\Xi^0 \rightarrow p\pi^-$ ” is under review within the KTeV Collaboration for submission to Physical Review D Brief Reports.

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Observation of the Decay  $\Xi^0 \rightarrow \Sigma^+\mu^- \bar{\nu}$ ” has been submitted for publication in Physical Review Letters.

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Measurement of the Branching Fraction of the Decay  $K_L \rightarrow \pi^+\pi^-e^+e^-$ ” has been submitted for publication in Physical Review Letters.

with T. Alexopoulos, *et al.* (*KTeV Collaboration*), “Measurements of the Branching Fraction and Decay Distributions for  $K_L \rightarrow \pi^\pm\mu^\mp\nu\gamma$  and  $K_L \rightarrow \pi^\pm e^\mp\nu\gamma$ ”, Phys. Rev. **D71**, 012001 (2005).

with T. Alexopoulos, *et al.* (*KTeV Collaboration*), “A Determination of the Cabibbo-Kobayashi-Maskawa Parameter  $|V_{us}|$  Using  $K_L$  Decays”, Phys. Rev. Letters **93**, 181802 (2004).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Search for the Rare Decay  $K_L \rightarrow \pi^0 e^+ e^-$ ”, Phys. Rev. Letters **93**, 021805 (2004).

with T. Alexopoulos, *et al.* (*KTeV Collaboration*), “Measurement of the Semileptonic  $K_L$  Form Factors”, Phys. Rev. **D70**, 092007 (2004).

with T. Alexopoulos, *et al.* (*KTeV Collaboration*), “Measurement of the  $K_L$  Branching Fractions and the CP-violation Parameter  $|\eta_{+-}|$ ”, Phys. Rev. **D70**, 092006 (2004).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Erratum: Measurement of Direct CP Violation, CPT Symmetry, and Other Parameters in the Neutral Kaon System” [Phys. Rev. **D67**, 012005 (2003)], Phys. Rev. **D70**, 079904 (2004).

with Nicola Cabibbo and Roland Winston, “Semileptonic Hyperon Decays and Cabibbo-Kobayashi-Maskawa Unitarity”, *Phys. Rev. Letters* **92**, 251803 (2004).

with J. R. Batley, *et al.* (*NA48/1 Collaboration*), “Observation of the Rare Decay  $K_S \rightarrow \pi^0 e^+ e^-$ ”, *Physics Letters B* **576**, 43 (2003).

with Nicola Cabibbo and Roland Winston, “Semileptonic Hyperon Decays,” **Annual Reviews of Nuclear and Particle Science**, vol. **53**, 39-75 (2003).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Branching Ratio Measurement of the Decay  $K_L \rightarrow e^+ e^- \mu^+ \mu^-$ ”, *Phys. Rev. Letters* **90**, 141801 (2003).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Measurement of Direct CP Violation, CPT Symmetry, and Other Parameters in the Neutral Kaon System”, *Phys. Rev.* **D67**, 012005 (2003).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Search for the  $K_L \rightarrow \pi^0 \pi^0 e^+ e^-$  Decay in the KTeV Experiment”, *Phys. Rev. Letters* **89**, 211801 (2002).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Radiative Decay Width Measurements of Neutral Kaon Excitations Using the Primakoff Effect”, *Phys. Rev. Letters* **89**, 072001 (2002).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Measurement of the  $K_L$  Charge Asymmetry”, *Phys. Rev. Letters* **88**, 181601 (2002).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “New Measurement of the Radiative  $Ke3$  Branching Ratio and Photon Spectrum”, *Phys. Rev.* **D64**, 112004 (2001).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “First Measurement of the Form Factors of the Decay  $\Xi^0 \rightarrow \Sigma^+ e^- \bar{\nu}$ ”, *Phys. Rev. Letters* **87**, 132001 (2001).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Branching Ratio Measurement of the Decay  $K_L \rightarrow e^+ e^- \mu^+ \mu^-$ ”, *Phys. Rev. Letters* **87**, 111802 (2001).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Measurement of the Branching Ratio and Form Factor of  $K_L \rightarrow \mu^+ \mu^- \gamma$ ”, *Phys. Rev. Letters* **87**, 071801 (2001).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “First Observation of the Decay  $K_L \rightarrow \pi^0 e^+ e^- \gamma$ ”, *Phys. Rev. Letters* **87**, 021801 (2001).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Measurement of the Rare Decay  $K_L \rightarrow e^+ e^- e^+ e^-$ ”, *Phys. Rev. Letters* **86**, 5425 (2001).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), “Measurement of the Branching Ratio

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with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), "A Measurement of the Branching Ratio and Asymmetry of the Decay  $\Xi^0 \rightarrow \Sigma^0 \gamma$ ", Phys. Rev. Letters **86**, 3239 (2001).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), "Study of the  $K_L \rightarrow \pi^+\pi^- \gamma$  Direct Emission Vertex", Phys. Rev. Letters **86**, 761 (2001).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), "Search for the Decay  $K_L \rightarrow \pi^0 e^+ e^-$ ", Phys. Rev. Letters **86**, 397 (2001).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), "Evidence for the Decay  $K_L \rightarrow \mu^+\mu^- \gamma\gamma$ ", Phys. Rev. **D62**, 112001 (2000).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), "Search for the Decay  $K_L \rightarrow \pi^0 \mu^+\mu^-$ ", Phys. Rev. Letters **84**, 5279 (2000).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), "Search for the Decay  $K_L \rightarrow \pi^0 \nu \bar{\nu}$  Using  $\pi^0 \rightarrow e^+e^- \gamma$ ", Phys. Rev. **D61**, 072006 (2000).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), "Search for the Weak Decay of a Lightly Bound  $H^0$  Dibaryon", Phys. Rev. Letters **84**, 2593 (2000).

with A. Alavi-Harati, *et al.* (*KTeV Collaboration*), "Observation of CP Violation in  $K_L \rightarrow \pi^+\pi^- e^+e^-$  Decays", Phys. Rev. Letters **84**, 408 (2000).

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with A. Affolder, *et al.* (*KTeV Collaboration*), "Observation of the Decay  $\Xi^0 \rightarrow \Sigma^+ e^- \bar{\nu}$ ", Phys. Rev. Letters **82**, 3751 (1999).

with J. Adams, *et al.* (*KTeV Collaboration*), "Search for the Decay  $K_L \rightarrow \pi^0 \nu \bar{\nu}$ ", *Physics Letters* **447B**, 240 (1999).