

## Lucas Taylor

### Publications in the area of Physics Phenomenology, Analysis, and Technology

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- [2] M. T. Dova, J. Swain, and L. Taylor, Sensitivities of one-prong tau branching fractions to tau neutrino mass, mixing, and anomalous charged current couplings, (1999), hep-ph/9903430.
- [3] T. Paul, S. Reucroft, Y. Srivastava, J. Swain, L. Taylor, S. Villa, and A. Widom, Branching ratios of the  $Z^0$  and  $W^{\pm}$  into 2 and 3 pions, Physics Letters **B 439**, 437 (1998).
- [4] M.T. Dova, J. Swain and L. Taylor, Anomalous charged current couplings of the tau and implications for tau compositeness and two-Higgs doublet models, Physical Review **D 58**, 015005 (1998).
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- [6] J. Swain, and L. Taylor, First determination of the quark mixing matrix element  $V_{(tb)}$  independent of assumptions of unitarity, Physical Review **D 58**, 093006 (1998), hep-ph/9712420.
- [7] J. Swain and L. Taylor, First unitarity-independent determination of the CKM matrix elements  $V_{(td)}$ ,  $V_{(ts)}$ , and  $V_{(tb)}$  and the implications for unitarity, (1997), hep-ph/9712421.
- [8] J. Swain, and L. Taylor, New constraints on the tau neutrino mass and fourth generation mixing, hep-ph/9712383.
- [9] S.S. Gau, T. Paul, J. Swain, and L. Taylor, Radiative tau lepton pair production as a probe of anomalous electromagnetic couplings of the tau, Nucl. Phys. **B 523**, 439 (1998).
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- [13] H. Akbari et al., The L3 vertex detector: Design and performance, Nucl. Instrum. Meth. **A 315**, 161 (1992).
- [14] D. Joyce et al., Silicon Detector Tests with the RAL Microplex Readout Chip, Nucl. Instrum. Meth. **A 279**, 189 (1988).