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Study of $B^- \to \omega \ell^- \bar{\nu}_\ell$ decays at BABAR H. WELLS WULSIN, Stanford University and SLAC National Accelerator Laboratory, BABAR COLLABORATION — We present an analysis of $B^- \to \omega \ell^- \bar{\nu}_\ell$ decays based on a sample of 470 million $B\overline{B}$ pairs recorded with the BABAR detector at the $\Upsilon(4S)$ resonance. We use a data sample from the sidebands of the $m_{3\pi}$ distribution to model the combinatoric ω-candidates background, which is the largest source of background. We measure the branching fraction for this decay in three bins of q^2, the squared momentum transfer, and compare the distribution with predictions based on theoretical form-factor calculations.

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