

# SINGLE PHOTON SIGNALS FOR WARPED QUANTUM GRAVITY AT A LINEAR $e^+e^-$ COLLIDER

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## ABSTRACT

We study the ‘single photon’ process  $e^+e^- \rightarrow \gamma\nu\bar{\nu}$  with contributions due to exchange of massive gravitons in the Randall-Sundrum model of low-scale quantum gravity. It is shown that for significant regions in the parameter space, this process unambiguously highlights the resonance structure of the graviton sector. Even in the non-resonant part of the parameter space, we show that comparison with the benchmark process  $e^+e^- \rightarrow \mu^+\mu^-$  can clearly distinguish signals for warped gravity from similar signals for large extra dimensions.

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