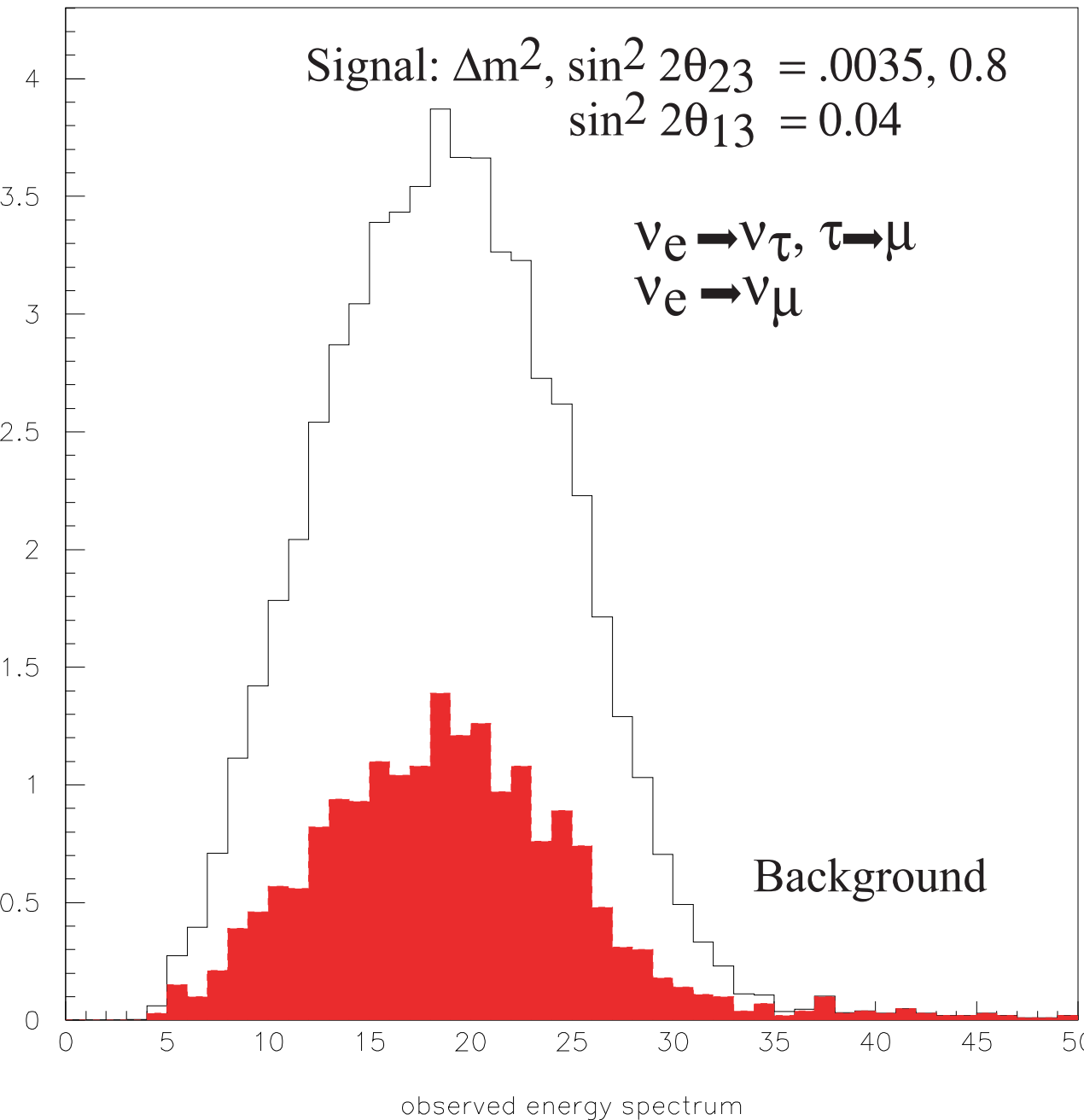Comparison of Signal to Background ($p_\mu > 4$ GeV)