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Implications of $\Delta\rho$ and Charm II data for Z' Physics

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Abstract: We discuss the constraints on the $Z^{\prime}$ model parameters coming from Z-pole and low-energy $\blacksquare_\mu$-e scattering data in the frame work of GUT-motivated models. We find that when the coupling constant of the extra U(1) is small (large) the parameter space is mainly determined by the Z-pole (the low-energy $\blacksquare_\mu$-e scattering) data.