



Contribution ID: 355

Type: **not specified**

Impact of Z' near the Z-pole and flavor violating couplings

Monday, 29 August 2011 12:15 (20 minutes)

It is shown that Z' with couplings to electron and b-quark with a mass close to the mass of the Z-boson provides an excellent fit to A_{FB}^e , A_e obtained from the hadronic final states, and other observables relevant to b-quark final states around and above the Z-pole. In this talk, allowing Z' to have additional flavor violating couplings, I'll discuss its impact on muon $g-2$, lepton flavor violating processes and like-sign dimuon charge asymmetry.

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Session Classification: Parallel Session 3