



Contribution ID: 989

Type: Oral (Non-Student) / orale (non-étudiant)

Careful treatment of the effects of $c\bar{c}$ narrow resonances in $B \rightarrow K^* \mu^+ \mu^-$ observables

Thursday 16 June 2016 10:00 (15 minutes)

A careful analysis of $B \rightarrow K^* \mu^+ \mu^-$ observables should consider the long-distance effects of the resonances in the short-distance dominated region. Here, we take into account the narrow resonance effects in the nonresonance region when calculating the differential decay rate and the forward-backward asymmetry in this decay. In doing so, we use a Breit-Wigner model for the resonances with momentum-dependent decay constants, a model that fits the data on photoproduction and the leptonic width of ψ and ψ' simultaneously

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Session Classification: R1-3 Advances in Nuclear Physics and Particle Physics Theory (DTP-DNP-PPD) / Progrès en physique nucléaire et en physique des particules théoriques (DPT-DPN-PPD)

Track Classification: Particle Physics / Physique des particules (PPD)