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Pion charge asymmetries in e+ e- -> pi+ pi- gamma below 1 GeV

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Abstract content

Summary

We calculate the forward-backward pion charge asymmetry for e+e->pi+pi- gamma process. For the final state radiation contribution we include Bremsstrahlung, double resonance and four different models (Kaon Loop Model, Resonance Chiral Perturbation Theory, Unitarized Chiral Perturbation Theory and Linear Sigma Model) for intermediate phi decay. We perform a Montecarlo code and compare our results with experimental data. In general, we reproduce the data above 700 MeV (except for Resonance Chiral Perturbation Theory), but none of the models yield a good description of the asymmetry between 400 and 700 MeV.

Primary author(s) : GALLEGOS INFANTE, Luis Armando (U. Guadalajara)
Presenter(s) : GALLEGOS INFANTE, Luis Armando (U. Guadalajara)
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