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Radiative Corrections studies Page

These pages contain an overview of the Radiative corrections studies that have been performed for the B to hh analysis.

[CP measurements Page](#) and [LHCb Physics Page](#)

Radiative corrections problem

The study of B to hh decays cannot avoid the careful evaluation of what is the contribution of radiative corrections. Every decay can be regarded as a B to hh + nphotons decay where the nphotons have not been detected because of some intrinsic lower energy detector threshold. So, when to quote BRs, a careful study needs to be made in order to extract the B to hh BR from the BR (B to hh + nphotons) one. Links to documentation are given below where: QED corrections for B to hh decays have been evaluated, and an overview of the difficulties foreseen in evaluating experimentally what the corrections are is presented.

Documentation

- HEP papers
 - ◆ [0508046](#) Babar BR measurement
 - ◆ [0508071](#) QED corrections computation
- Conference talks
 - ◆ [Baracchini.pdf](#): E. Baracchini Talk on B to Kpi puzzle and two body decays radiative corrections
 - ◆ [QEDcorr.pdf](#): QED corrections calculation (for B to hh) from E. Baracchini and G.Isidori
 - ◆ [Was.pdf](#): Talk on PHOTOS implementation of radiative corrections to B decays

Ongoing work

There's currently an attempt to understand how PHOTOS is implemented in LHCb software and to understand how to tune it in order to have a correct description of radiative corrections.

[CP measurements Page](#) and [LHCb Physics Page](#)

-- Main.asarti - 23 May 2006

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