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Sensibility study for B to Invisible(+gamma) decay with the BaBar detector

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We show prospects for research of invisible decays of B meson in a sample of about 470 millions BBbar pairs recorded with the BaBar detector at the SLAC PEP-II B factory. The Standard Model predictions for a B decay with completely invisible final products (or with a single photon as detectable particle) are far from the current experimental sensitivities but several New Physics Models predict significant enhancements on th Branching Ratio of these decays. The analysis technique consists in the reconstruction of a semileptonic B decay on one side and in the search of missing energy or missing energy plus one photon in the recoil.
We'll describe the search techniques and provide the expected sensitivities for these decays.

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