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Studies of semileptonic decays with the LHCb detector

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Charmless semileptonic decays provide information on the Cabibbo-Kobayashi-Maskawa matrix element $|V_{ub}|$, which plays a crucial role in testing the description of quark mixing phenomenology, including CP violation. $|V_{ub}|$ is currently measured with inclusive charmless semileptonic decays, and with exclusive semileptonic decays, with results which do not agree very well. It is of great interest to broaden the investigation of this parameter with new analysis techniques. The LHCb experiment has access to charmless decays of B_0 , B^+ , B_s mesons, and b baryons, with large data samples because of the high b -production cross section. We present preliminary studies and projected sensitivities on branching fractions and form factors for several of these decay modes.

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