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Luminosity measurement at LHCb

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The high resolution of the LHCb vertex detector makes it possible to perform precise measurements of vertex positions of beam-gas and beam-beam interactions. With these measurements beam parameters such as width and position can be measured. A novel method for determining the absolute luminosity at the LHC using the directly measured beam parameters will be presented. The data taken in 2009 will be used to illustrate the procedure.

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