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CMS B physics results and prospects for the future

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B physics is one of the key physics themes at the Large Hadron Collider (LHC). B hadrons are an ideal tool for advancing our current understanding of the flavour sector of the Standard Model (SM), and searching for effects originating from physics beyond the SM, thanks to the large production rate and the fact that B hadrons are relatively easy to trigger on and identify due to their long lifetime and high mass. The interplay between strong and electroweak effects in the production and decay of B hadrons makes them a unique test ground for both forces. In this talk, we present the first results from CMS for B hadron and quarkonium production. The excellent momentum resolution and the flexible trigger scheme of CMS bode well for future measurements and searches for deviations from the SM.

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