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Machine learning driven analysis of the calibration data for upgraded LHCb Velo.

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The LHCb is one of the four main experiments discovering cutting-edge physics at the Large Hadron Collider. The effects of the harsh conditions of constant radiation require maximum thought and care. This includes research for new applications and novel algorithms that will help to understand and predict the behaviour of the vertex locator detector at LHCb. Our studies include methods based on calibration data from 2012-2018 and insights for the new (pixel-based) Velo detector in the upcoming data-taking runs at LHC. Those methods will be introduced to the detector monitoring software ecosystem.

Primary author(s) : MAJEWSKI, Maciej (AGH University of Science and Technology); Dr SZUMLAK, Tomasz (AGH University of Science and Technology)

Presenter(s) : MAJEWSKI, Maciej (AGH University of Science and Technology)

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