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Overview of the CMS BCML system and the potential of pCVD diamond detectors surface modification

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Beam luminosity increasing leads to the fact that undesirable deviations from the trajectory can lead to catastrophic consequences for any deflecting and measuring systems. To prevent such incidents, the BRIL team has developed the BCML system, which allows to dump the beam in a short time if a certain dangerous level of luminosity is exceeded. To this system the many requirements applying such as high radiation resistance, reaction speed and stability over time. In this poster, we examine the behavior of the BCML system during 2017 and perform a comparative analysis of various types of detectors, including experimental R&D samples.

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