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ATLAS Pixel Detector radiation damage monitoring with the High Voltage delivery system

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The ATLAS Pixel Detector radiation damage monitoring system uses leakage currents in pixel modules measured with ATLAS Pixel High Voltage delivery system. We present leakage currents measured in 2011 and 2012 and their dependence
on the ATLAS integrated luminosity (~ 24 fb^{-1}). We compare them with the theoretical model prediction. The status of the system is presented as well as the prospects for the further studies.

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