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Application of deep learning to the analysis for B -> K* Gamma in Belle II

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The Belle II experiment is expected to start taking data in early 2018. Precision measurements of rare decays are a key part of the Belle II physics program and machine learning algorithms have played an important role in the measurement of small signals in high energy physics over the past several years. The authors report on the application of deep learning to the analysis of the B to K* Gamma analysis. We report on the implementation using the Machine Learning Toolkit for Extreme Scale (MaTEX) and the deployment on an HPC system.

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