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## Machine Learning applications at the ATLAS experiment

*Tuesday, 30 April 2024 14:59 (3 minutes)*

Machine learning (ML) plays a significant role in data mining at the High Energy Physics experiments. An overview of ML applications at the ATLAS experiments will be shown, with highlights in Physics Beyond the Standard model searches using anomaly detection and active learning. Additionally, advances in the object reconstruction and improvements in simulation using ML will be shown.

**Presenter:** MAMUZIC, Judita (IFAE - Barcelona)

**Session Classification:** 2.1 Pattern recognition & Image analysis

**Track Classification:** Session A