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Advanced Multivariate Analysis methods for use by the experiments at the Large Hadron Collider

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In the course of the past four years, AMVA4NewPhysics, a Horizon2020-funded Marie Skłodowska-Curie Innovative Training Network, has focused on the study of advanced analysis methods for the High Energy Physics research. Through the individual and collective work of its members, AMVA4NewPhysics has contributed to the development and optimisation of Machine Learning tools, which promise to improve the measurement and search sensitivity of the ATLAS and CMS experiments at the Large Hadron Collider. In this talk, some of these new tools will be presented.

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