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Quantum Machine Learning concepts for HEP

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This contribution explores the Machine Learning techniques and Quantum Computing concepts and applications in High Energy Physics considering a phenomenological and theoretical view. Besides, we show the main tools to explore the Standard Model extensions, decay process and the parameter space. With this set of tools, we want to explore the bounds and define exclusion regions, those bounds might be relevant to explore in the next generation of colliders and could be tested in order to understanding of phenomena.

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