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Experiment optimisation with differentiable programming

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In 2012 the imagenet challenge and the discovery of the Higgs boson produced a paradigm shift in particle physics analysis. Today a new revolution awaits to be made. The possibility to map continuously the space of design solutions of even the hardest optimization problem, using differentiable programming, promises to provide us with entirely new and more performant or cheaper solutions to particle detection. I will look at the status of this research development and provide a few examples to prove its potential.

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