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The existence and uniqueness of diffraction at the LHC

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We discuss the mathematical ill-posedness of measuring diffractive cross sections at the LHC. As a solution, a Bayesian algorithmic framework is proposed to regularize the ill-posedness.

Primary author: MIESKOLAINEN, Mikael (Helsinki Institute of Physics, University of Helsinki)
Presenter: MIESKOLAINEN, Mikael (Helsinki Institute of Physics, University of Helsinki)
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