

# NLO QCD Corrections to Scattering Processes Using $\theta$ -Parameters in the NSC Subtraction Scheme

Bachelor's Degree in Physics

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# The Standard Model of Particle Physics

Evidence for Beyond-Standard-Model physics

imgs/clowe-2.png

## Main BSM evidence

- dark matter and dark energy
- matter-antimatter asymmetry
- neutrino masses

Figure from Clowe et al. 2006.

Offset between the observed baryonic mass distribution and the gravitational potential in the Bullet Cluster (1E 0657-56).