

# HL-LHC (ATLAS Cuts)

$\sqrt{s} = 14\text{TeV}$ ,  $pp \rightarrow e^\pm \nu \mu^\mp \nu$ , No Jet Veto  
NNPDF31\_nnlo\_as\_0118\_luxqed\_nf\_4

$d\sigma / M_{e\mu}$  [fb / GeV]

- $qq + gg + \gamma\gamma$
- - -  $qq\text{-only (NNLO}_{\text{QCD}} \times \text{NLO}_{\text{EW}}\text{)}$
- $\gamma\gamma\text{-only (NLO)}$
- $gg\text{-only (LO)}$

% Contribution

100  
10  
1  
0.1  
0.01

200

1000

4000

$M_{e\mu}$  [GeV]