Update on q_s fits with dynamical z_M

q_s [GeV]

- CMS 2022 13 TeV
- CMS 2019 13 TeV
- ATLAS 8 TeV
- CDF 1.96 TeV
- Phenix 200 GeV
- R209 62 GeV
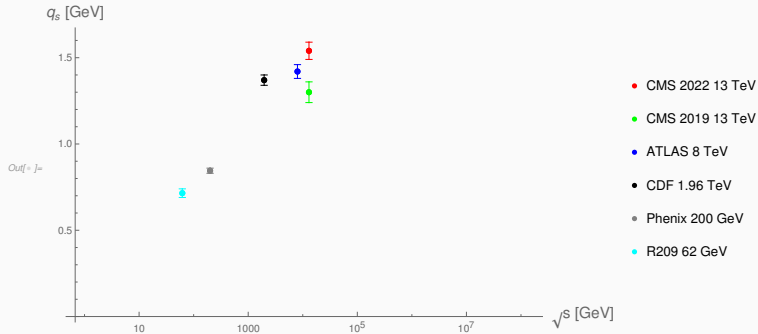
- The results obtained with (i)TMD with dynamical z_M with $q_0 = 1$ GeV (both in z_M def and as a cut in α_s)
- iTMD fitted to HERA data
- For CMS, ATLAS, CDF I look at Z mass window
- R209 and Phenix are in much lower mass window ($5 < M < 8$ GeV and $4.8 < M < 8.2$ GeV respectively)
- uncertainties still have to be assigned correctly

Problem with NUSEA and E605
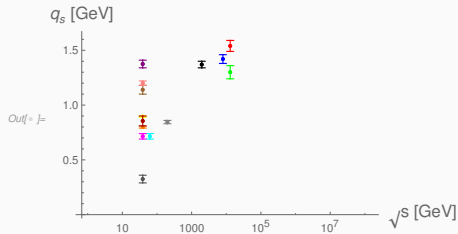
- CMS 2022 13 TeV
- CMS 2019 13 TeV
- ATLAS 8 TeV
- CDF 1.96 TeV
- Phenix 200 GeV
- R209 62 GeV
- NUSEA, 4.2 GeV $< M_{\mu^+\mu^-} <$ 5.2 GeV
- NUSEA, 5.2 GeV $< M_{\mu^+\mu^-} <$ 6.2 GeV
- NUSEA, 6.2 GeV $< M_{\mu^+\mu^-} <$ 7.2 GeV
- NUSEA, 7.2 GeV $< M_{\mu^+\mu^-} <$ 8.7 GeV
- NUSEA, 10.2 GeV $< M_{\mu^+\mu^-} <$ 12.85 GeV
- E605, 7 GeV $< M_{l^+l^-} <$ 8 GeV
- E605, 8 GeV $< M_{l^+l^-} <$ 9 GeV
- E605, 11.5 GeV $< M_{l^+l^-} <$ 13.5 GeV

- I get different result from each mass window