W+charm: Theoretical predictions



- → W+c production implemented in MCFM in NLO (fixed order calculation including <u>real and virtual</u> corrections)
- → Jet clustering algorithm (anti-kt with R=0.4) run on partons ensures well defined observables / interpretable results
- Interfacing MCFM with APPLgrid allows to:
 - → Change PDF and Factorization/Renormalization scale easily
 - For W+c: Well defined final states (no jet labelling needed)
 W → (nu(p3) + e(p4)) + c-quark(p5) + add.jet (p6)
 - Cuts can be implemented and distributions of variables filled
 - → Analytical calculations often used in PDF fits
 - → Branching into semi-leptonic muon not available



