

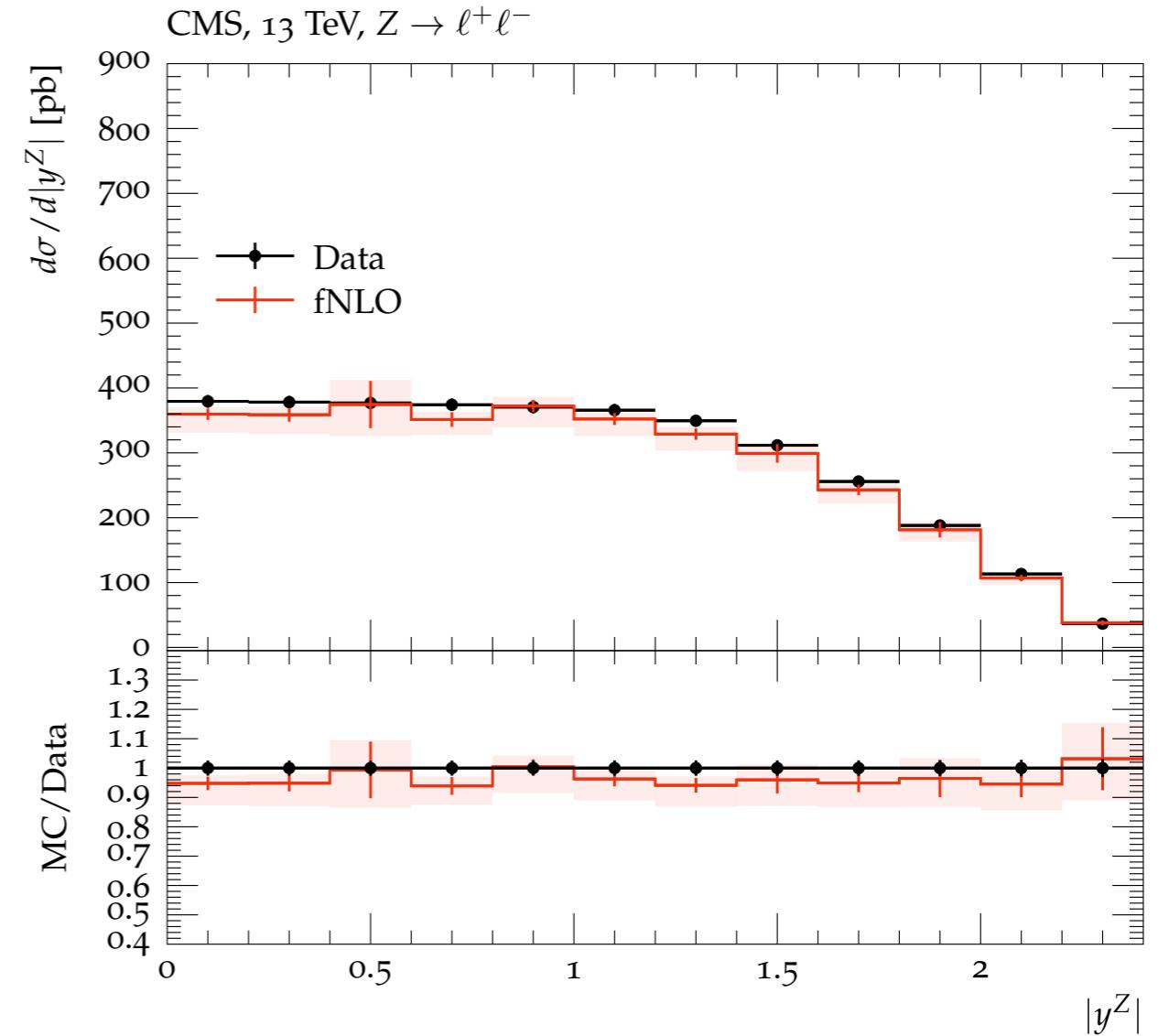
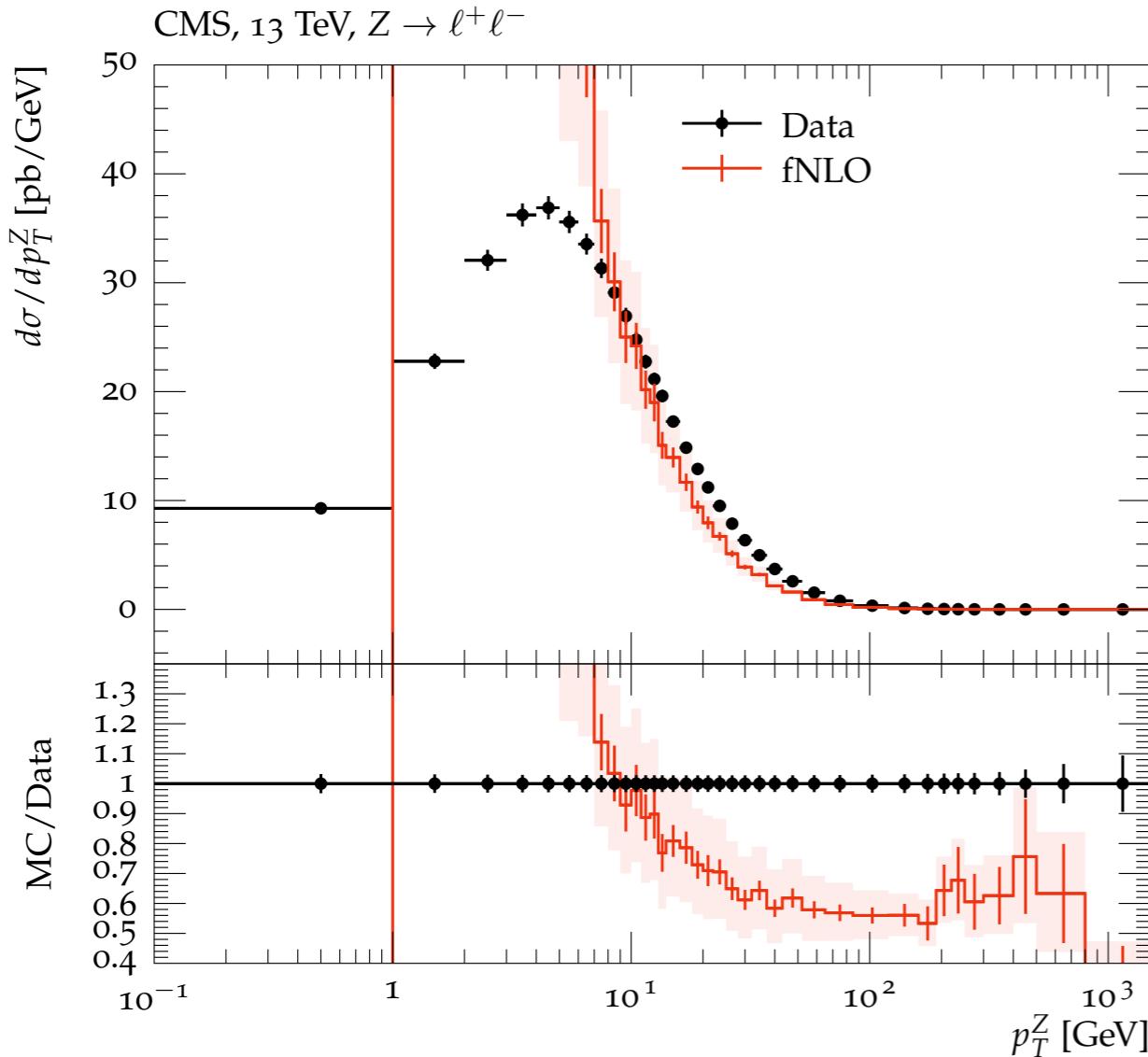
Cascade developer meeting

- Hope that you are all ok !

fixed NLO with madgraph_aMCatNLO/CASCADE

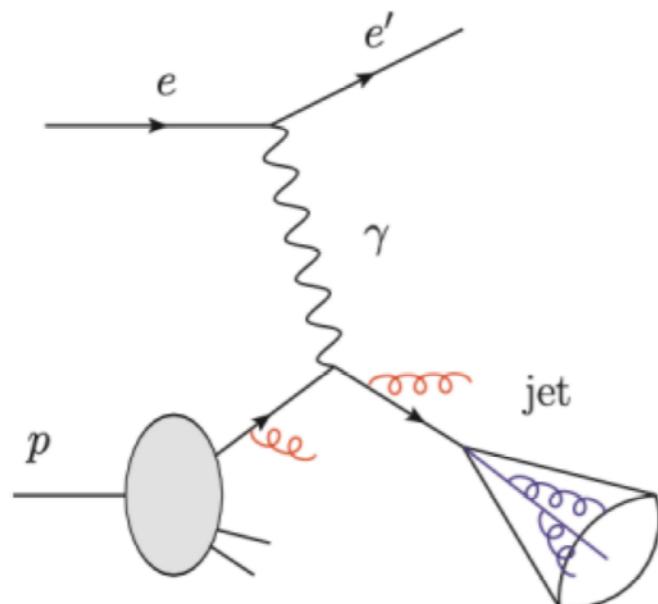
- generate fixed NLO predictions with madgraph_aMC
 - produced LHE files
 - need some manual modifications: adding beam energy in init
 - CASCADE treats properly weights and event numbers
 - give same event number to event & counterevent
 - important for treatment of stat uncertainty: weights are added, but treated as one event
 - running lhe through CASCADE, without adding/modifying
 - produce hepmc file with all weights
 - run through Rivet as usual

fNLO for DY production

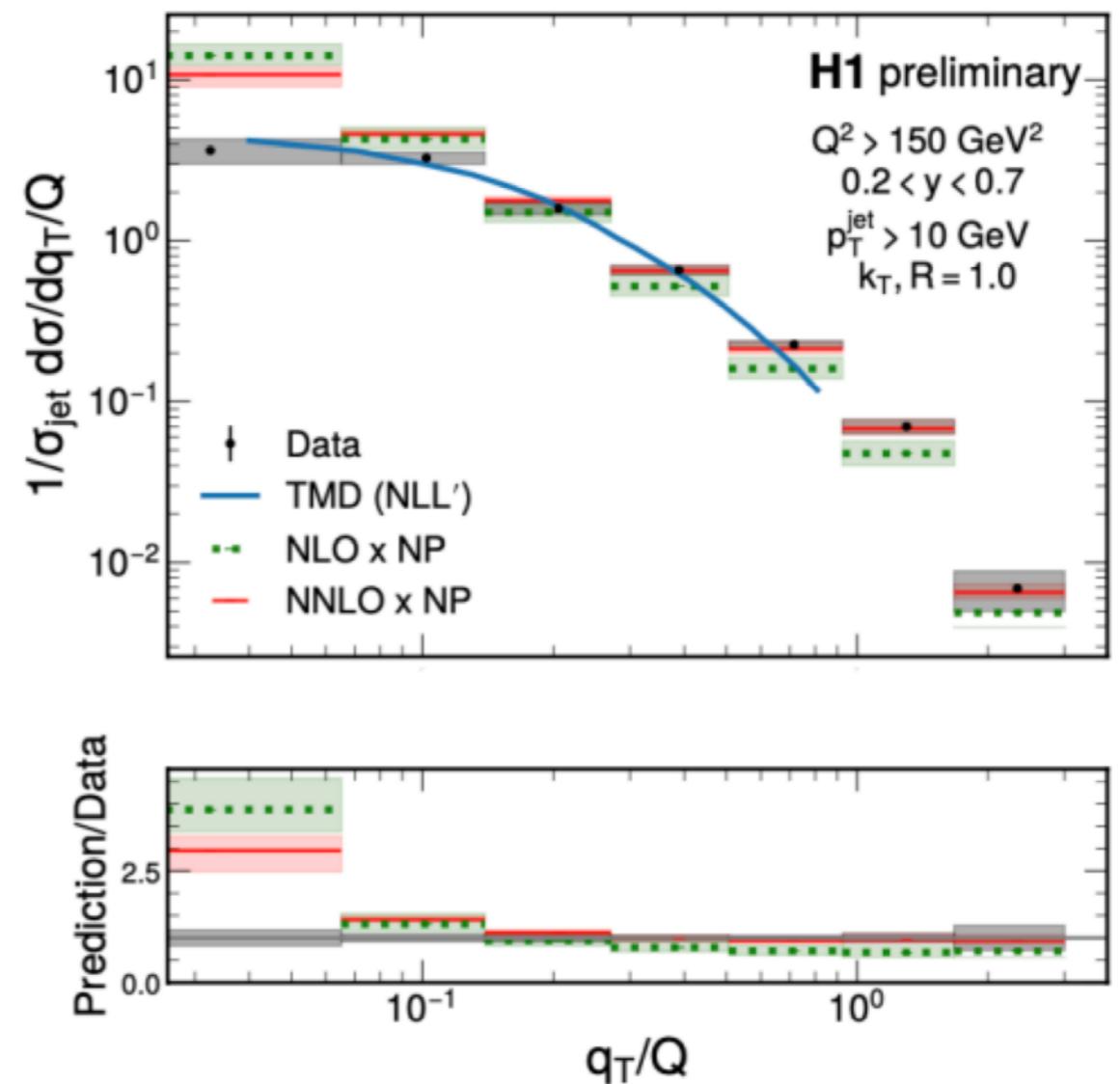


PB TMDs for DIS

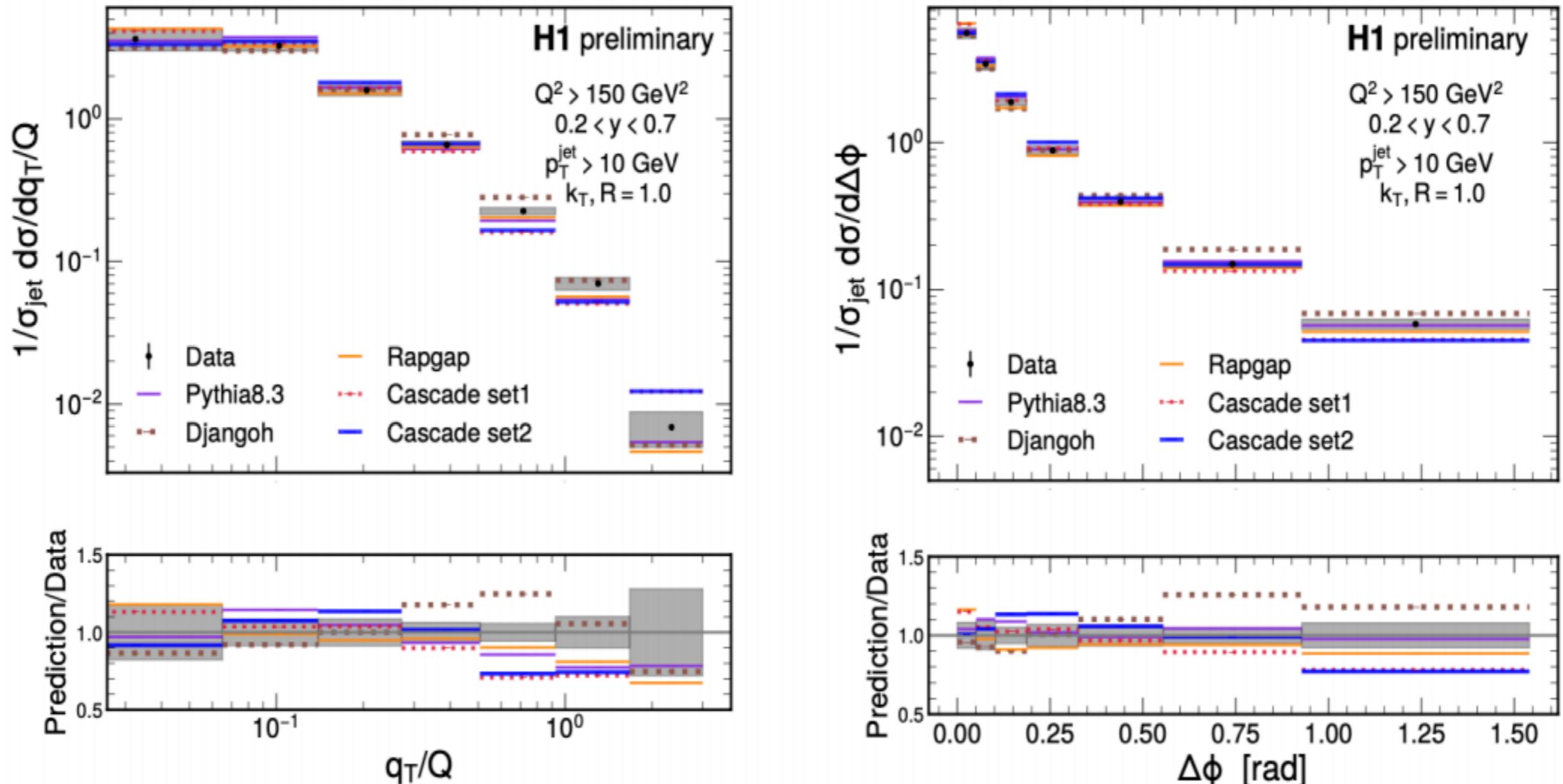
- H1 measurement to investigate TMD effects → to be presented at DIS
- H1-prelim-21-031



$$q_T = |(\vec{p}_T^e + \vec{p}_T^{jet})|$$



PB TMDs for DIS with KaTie and CASCADE



- at High Q^2 , QPM process reasonable
- PB TMDs work fine
 - set 1 too high, while set 2 is in agreement
- Success: first comparison with DIS → to be presented at DIS next week

CASCADE manual

- Still issue with double counting.... work ongoing
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