Yadism

Yet Another DIS Module

Implemented features

- LO plain coefficient functions
- NLO plain light & heavy coefficient functions
- scale variations
- target mass corrections
- flavor number schemes

Currently working on: FNS

- FFNS implemented and benchmarked against APFEL
- ZM-VFNS *in debugging*
- FONLL *coming soon*
- ***Related issue:*** α_s branching evolution in APFEL (depends on FNS)

Still working on: TMC

- Implementation complete (including all formulas alternatives)
- Succesful APFEL benchmark *(choosing to compare with the very same expressions and interpolation strategy)*
- Still **comparing literature**

Testing and automation setup

- CI implemented through Github workflows *(since the very beginning of the development in January)*
- Multiple tests present: unit, regression tests, and APFEL benchmarks
- Benchmarks managed through DB based framework (using `tinydb`)
- Benchmarks against further codes *coming soon*

Roadmap

1. Going on with FNS
2. Implement new features listed on the repo wiki
3. Move to NNLO

In the meanwhile project will grow, and more tools, benchmarks/testing and automation are added and live updated.