Alphas Tool

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A new tool was developed in order to make alpha analysis easy and straightforward.

It is (will be soon) in the ICARO repository, depending on IC:
https://github.com/nextic/ICARO

It is ready to run once IC and ICARO setup is done and the user defines $ALPHASDIR pointing to the dsts location.

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It includes two nb with their correspondent example, a python script and a text file:

- Lifetimes.txt: stores all magnitudes computed for all runs analyzed (to be generalized into a DataBase).
- alphas_lifetime.ipynb: one run analysis with plots inline.
- alphas_lifetime_evolution.ipynb: plots lifetime values found in Lifetimes.txt.
- alphas_lifetime.py: analyzes a given set of runs and stores the plots and results:
  python alphas_lifetime.py -r [run1 run2 ...] [--save-plots] [--overwrite]
  - **-**r: list of runs to be computed
  - -i (optional): path to data. $ALPHASDIR by default.
  - -o (optional): output path. $ICARODIR/icaro/Alphas/Lifetimes.txt by default.
  - -p (optional): output plot path. ./plots by default.
  - --save-plots (optional): plots are stored.
  - --overwrite (optional): overwrites entries in Lifetime.txt