autoMAGIC's Current Status and Outlook

autoMAGIC Workshop Padova

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Contents:

- A realistic valuation of autoMAGIC's problems

- Open issues

- Outlook: Shaping autoMAGIC's future

AutoMAGIC's Problems and Limitations

- So far no concept for many users
  - Usage of same DB would be desirable but a concept for the user-independent job submission is needed

- Data availability still unsolved
  - Convenient workaround needed for accessing calibrated or raw files
  - Workflow has to be designed with the PIC admins

- AutoMAGIC is no tool for special analyses
  - This is a design decision and will not change!

Open Issues

- AutoMAGIC is work in progress

- Long list of open issues
  - Some are quite easy to implement
  - Feel encouraged to contribute!!!

- Please open issues whenever you encounter problems!

Open Issues - Examples

- DL3 axes in automagic config

- Duration cuts within autoMAGIC

- Read MCs before ST.03.06

- Updating the autoMAGIC environment to newer package versions

- Etc…

- Whole list: https://gitlab.pic.es/magic/automatic_analysis/-/issues

AutoMAGIC's Future

- Possibilities:
  - Massive DL3 processings with standard settings
    - Easy for dark analyses
    - Data availability problem should be solved for massive moon data analysis
  - Fast Analyses of huge amounts of data
  - Massive processing of moon data?
  - Standardized workflow → reproducible analyses

AutoMAGIC's Future - Challenges

- Organizational Issues
  - New Maintainer (Cyrus Walther in Dortmund)→ Transfer of Knowledge
  - No one who's working on autoMAGIC almost full-time anymore!
    - We need all contributions we can get!

- Physics/Data Issues
  - Address data availability issues with PIC admins
  - Develop plan for correction of hazy atmosphere conditions in DL3/Gammapy pipeline?
  - **Design workflow to use the big autoMAGIC database with multiple users!**