

Overview of autoMAGIC Commands

autoMAGIC Workshop Padova

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- Overview of many autoMAGIC commands and options
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The Basic Analysis Commands

- If options are not specified, they will be taken from the config!

- `automagic create_jobs`
 - `add_data`
 - `On` (add calibrated on data)
 - `Off` (add calibrated off data)
 - `superstar_on` (add superstar on data)
 - `superstar_all` (add all superstar data, RECOMMENDED!!!)
 - `analysis_bottom_top`
 - `production`
 - `coach` (massive production up to coach)
 - `superstar` (massive production up to superstar)
 - `mataju_analysis` (massive mataju production up to superstar)

The Basic Analysis Commands

- If options are not specified, they will be taken from the config!

- `automagic submit`
 - `all` (for submitting jobs)
 - `test_job` (for testing the submission of jobs)

- `automagic get_fits`

Filling the Database

- Initial fill is done with `automagic fill_database`
 - If nothing is specified, it will insert all MCs!
- Adding required MC sets with `automagic insert_mc_production`

```
Options:
--production_name TEXT
--view_cone_name [ringwobble|diffuse1.5|diffuse2.5|diffuse4]
--trigger_name [standard|SUMT|EGALSUMT|MATAJU|EGALMATAJU]
--extension_name [highE|lowE]
--zenith_name [low|medium|high|very_high|ultra_high|extremely_high]
--mc_runs INTEGER          Number of MC runs to fill into the database
                           for test cases.
--superstar BOOLEAN       Fill the superstar data instead of the
                           calibrated MCs.
--help                    Show this message and exit.
```

Updating the Database

- After new releases have been implemented in autoMAGIC, a DB upgrade may be necessary:
- `automagic update_mars`
- `automagic update_dl3_converter`
- `automagic update_analysis_periods`

Running Jobs

- You can run jobs interactively on a node of the PIC server
 - `condor_submit -i getenv=True`

- Run the jobs with `automagic run` (plus add the job_id)
 - `add_data`
 - `add_data_superstar`
 - `star_superstar`
 - `coach`
 - `mc_superstar`
 - `selectmc`
 - `melibea`
 - `mc_melibea`
 - `magic_DL3`

If something went wrong...

- automagic reset
 - `clusterfuck` (set jobs stuck in state_ids 2,3, or 4 to state_id 1)
 - `delete_coach_and_dependent_jobs` (delete coach jobs and all melibea and DL3 jobs depending on it)
 - `input_file_missing` (reset state input_file_missing to created)

Special use Cases: MaTaJu Analysis

- Some commands are only for the MaTaJu Analysis
- Some commands have a `--mataju` oder `--mataju_compatible` option that is only for the mataju analysis
- `automagic fill_pointings_and_source_positions`
- `automagic insert_mataju_files_into_sorcerer_table`
- `automagic insert_mataju_files_into_superstar_table`
- `automagic update_c_p_file_information`
- `automagic force_insert_l3_table_info`