



1-10 GeV 10-100 GeV 100-300 GeV



variability with doubling time scales faster than 4.8m





Data analysis of 2 Chandra observations and 1 XMM observation

For each data set:

- Nuclear spectral extraction and production of ARF and RMF response files
- Pile-up check
- Spectral analysts with XSPEC: best-fit model, parameter uncertainties, 68%, 90%, 99% counter plot, flux and luminosity
- Light curve of the Chandra observation with longer exposure time
- Comparison of the Chandra and XMM spectral results: Variability?

Very High Energy: emission in the TeV

CTA Simulation of the high and low states of IC310 observed by MAGIC Aleksic et al. 2014, A&A, 563, A91

-> using the CTOOL package and assuming 5 hours of pointing (tobs=5h)

CTA threads —> http://cta.irap.omp.eu/ctools/users/tutorials/quickstart/index.html

***** Production of the event files

***** Likelihood analysis: spectra production



MAGIC observations



1. Insert the estimated Chandra and XMM fluxes in the IC 310 SED

2. Swift data (December 2012) conversion c/s -> flux erg/s/cm2 using PIMMS and adopting a simple modelling (powerlaw)

PIMMS —> https://heasarc.gsfc.nasa.gov/cgi-bin/Tools/w3pimms/w3pimms.pl

Bibliography

Aleksic et al. 2014, A&A, 563, A91 Neronov, et al, 2010, A&A 519, L6 Aleksic et al., 2014, Science, 346, 1080