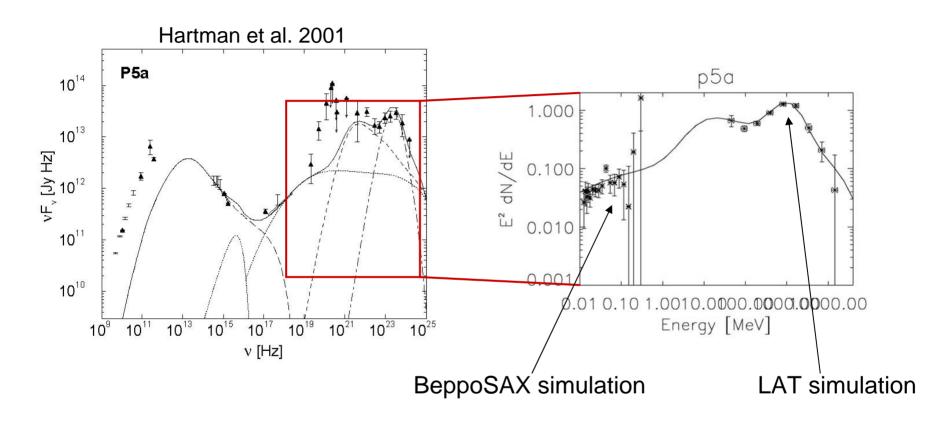
Testing Leptonic Models for AGN Jets with the GLAST LAT

Jennifer Carson
June 20, 2006
(draft of work for poster to present at Krakow Jets Conference)

Overview

- Case study with...
 - 1 FSRQ: 3C 279
 - 1 LBL: W Comae
 - 1 HBL: Markarian 421
- ...for which detailed leptonic models exist.
- Time-average spectra (1 week 1 month)
- Models include SSC + EC components
- How well can LAT observations constrain models?

3C 279 – Flaring State

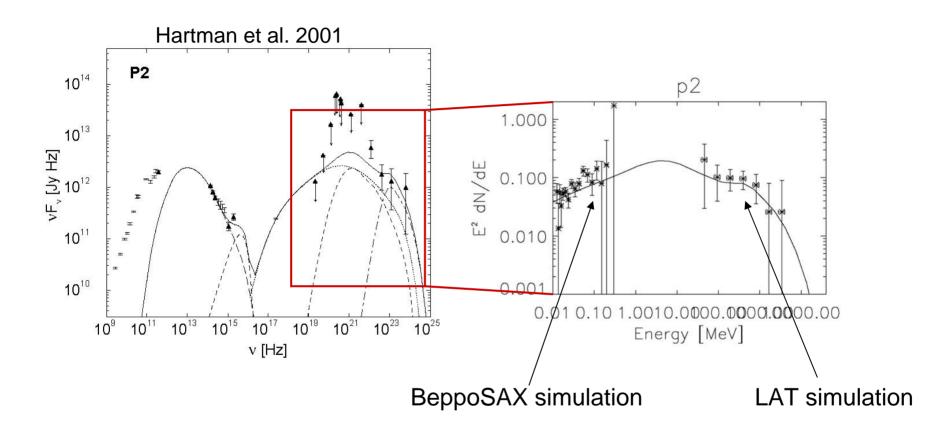


Synchrotron self-Compton

External Compton from Disk

External Compton from BLR

3C 279 - Low State

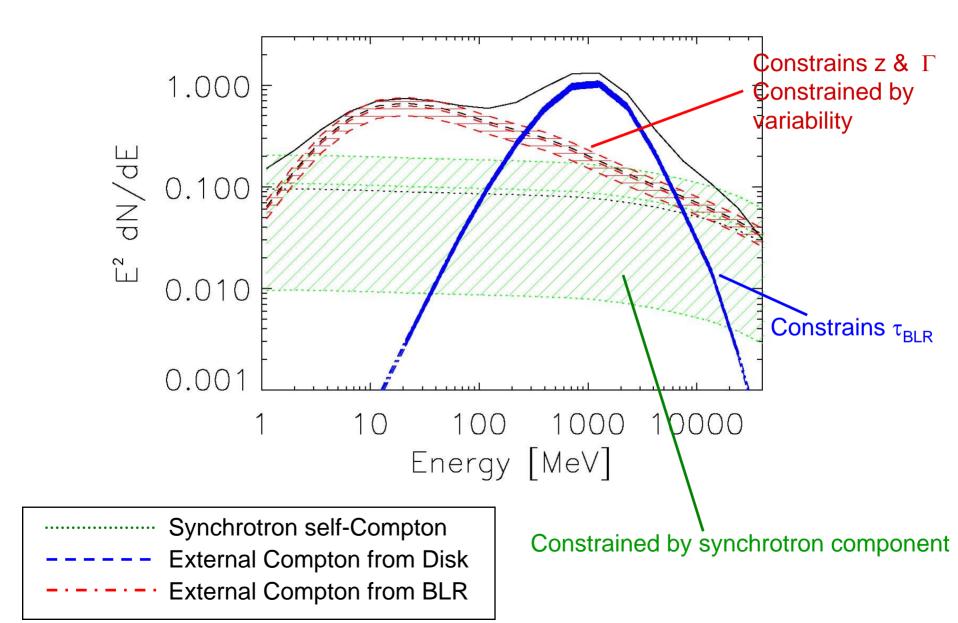


Synchrotron self-Compton

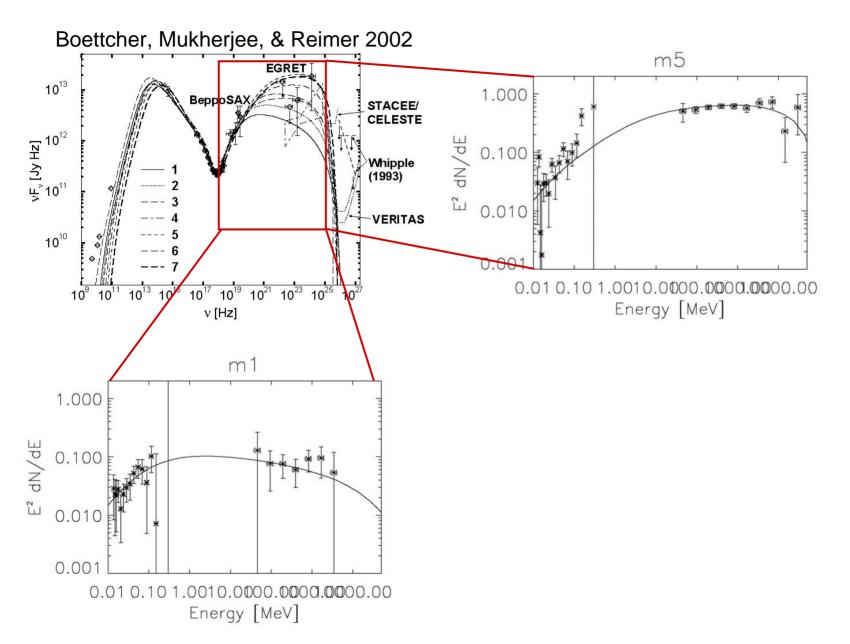
---- External Compton from Disk

---- External Compton from BLR

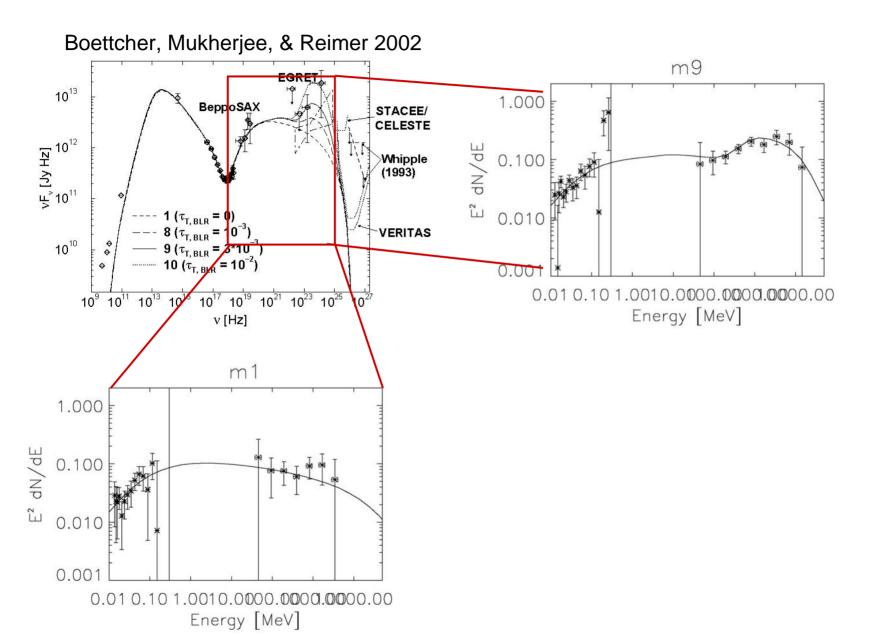
3C 279 – Likelihood Analysis



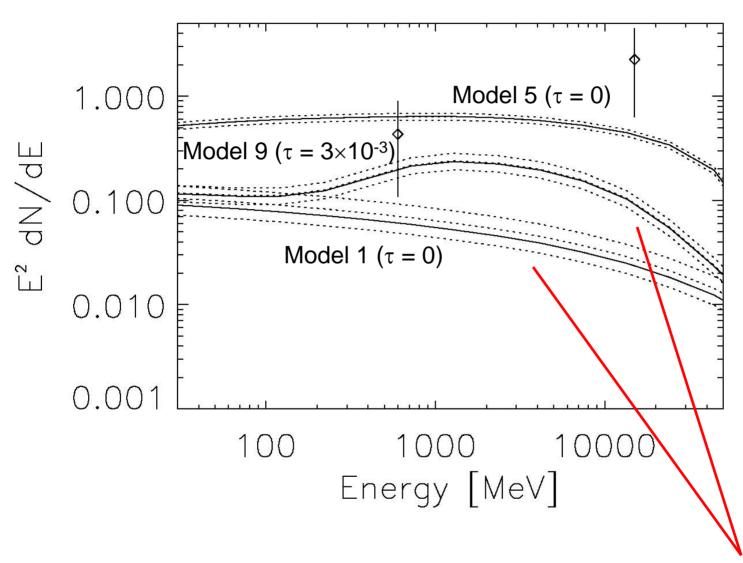
W Comae – Pure SSC Models



W Comae - SSC+EC Models



W Comae – Likelihood Analysis



Can constrain τ_{BLR} to < 3×10^{-3}