

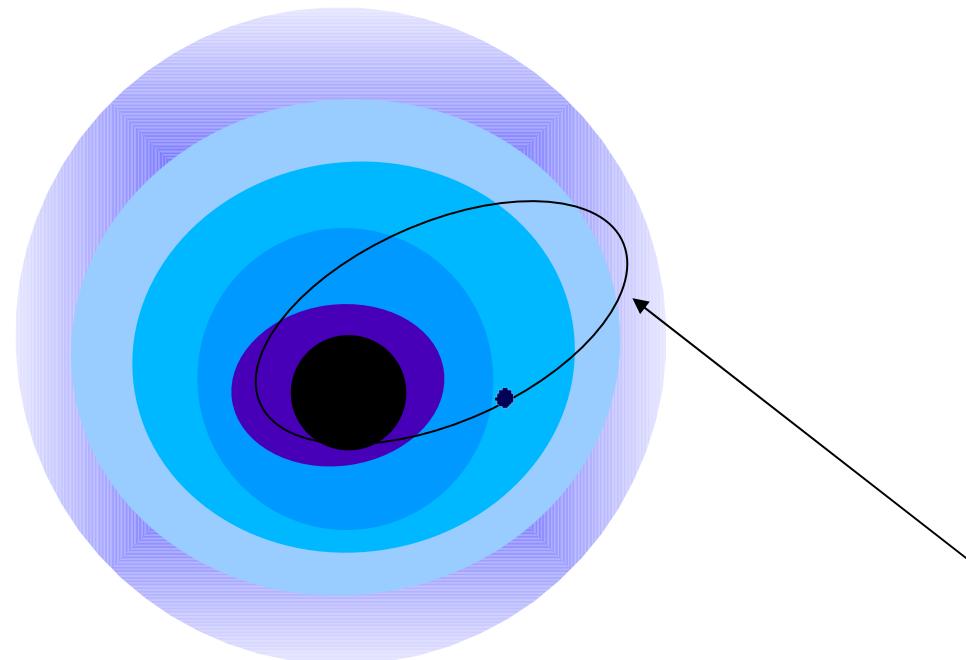
Radio Spectral Index Analysis of the TeV Gamma-ray Source LS I +61303

Maria Massi
(MPIfR)

The two peak accretion model

Taylor et al. 1993

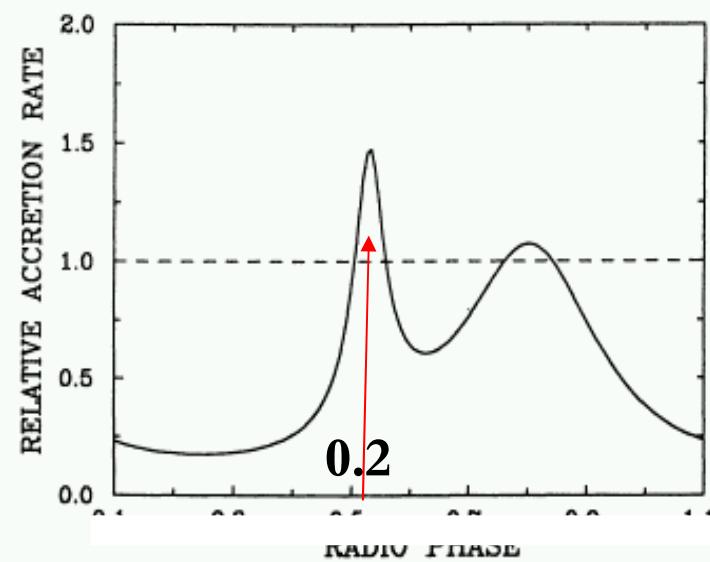
Marti' & Paredes 1995



The accretion

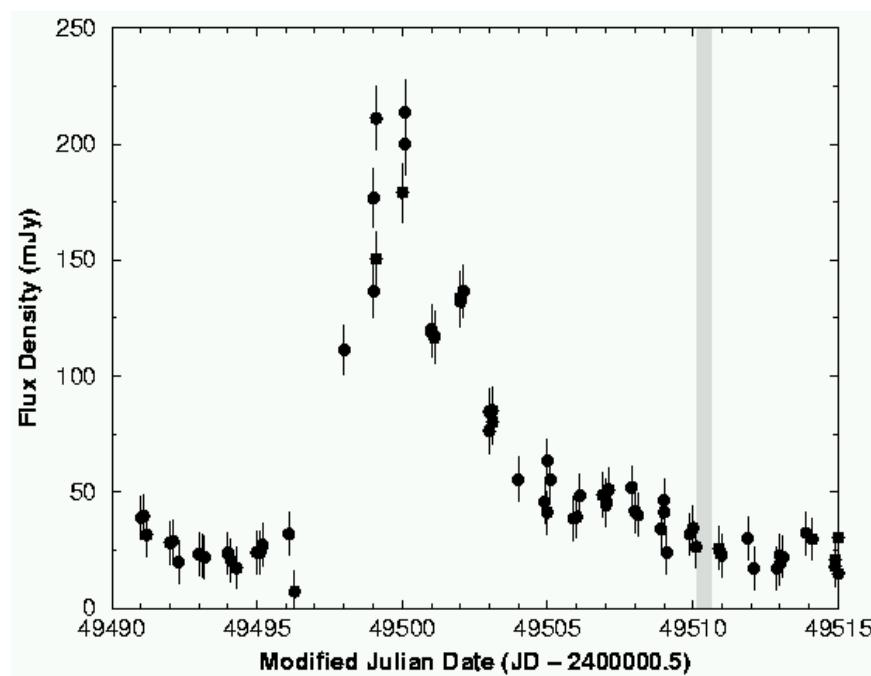
$$\dot{M} \propto \frac{\rho_{\text{wind}}}{v_{\text{rel}}^3}$$

along an eccentric orbit develops two peaks

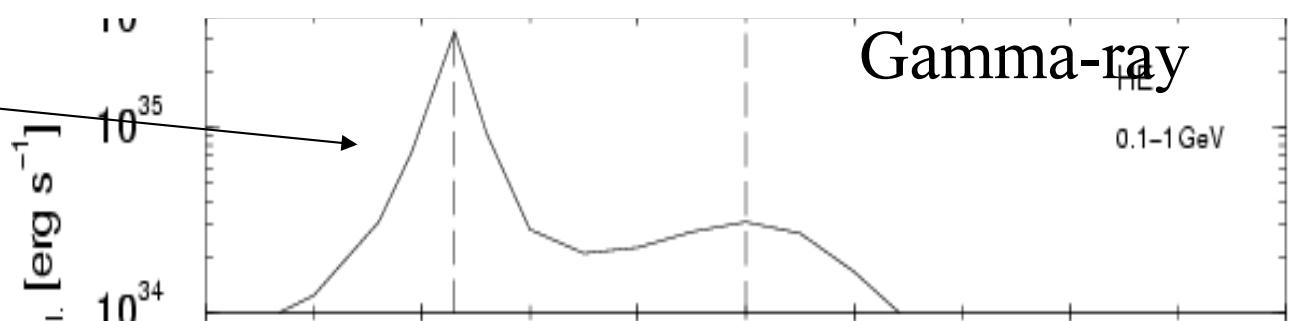
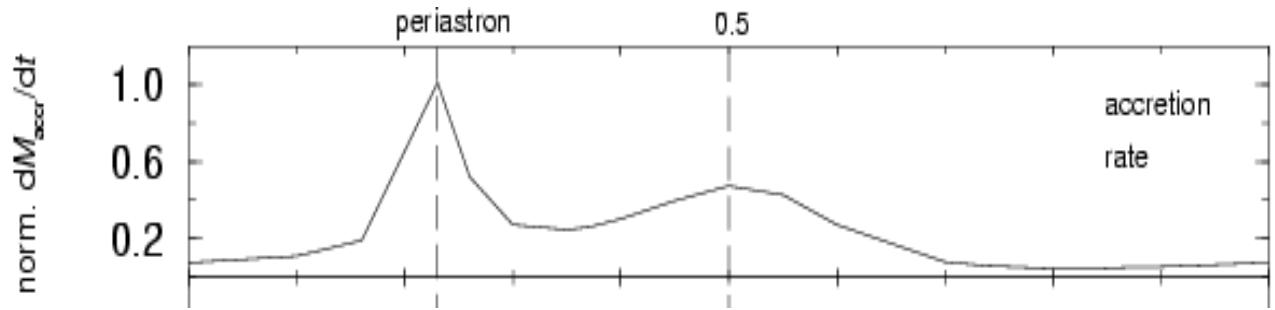
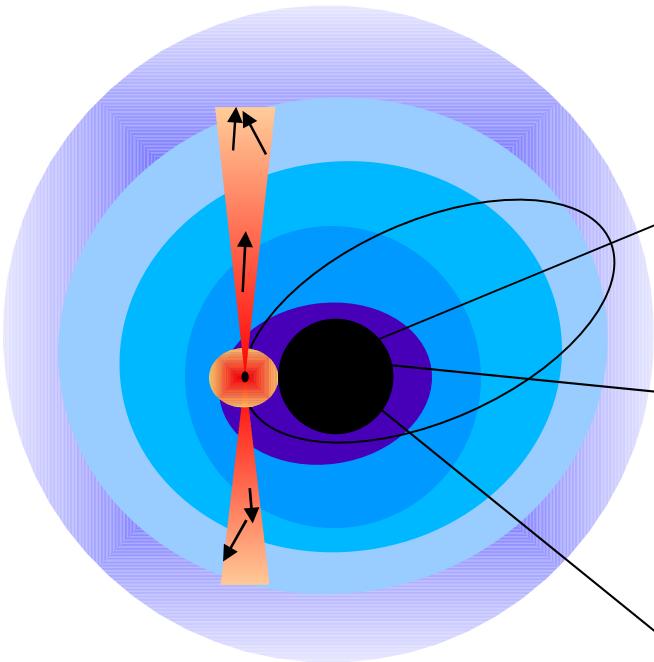


Marti' & Paredes 1995

RADIO OUTBURSTS

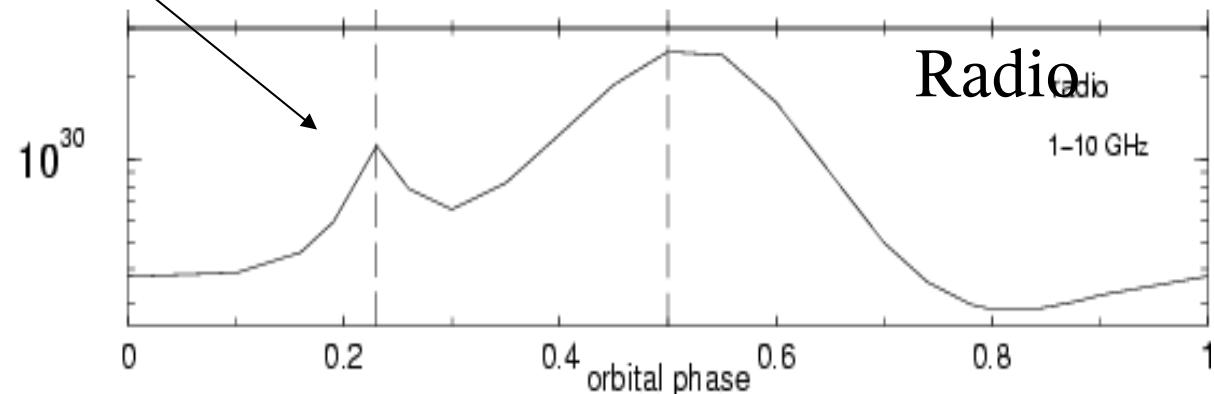


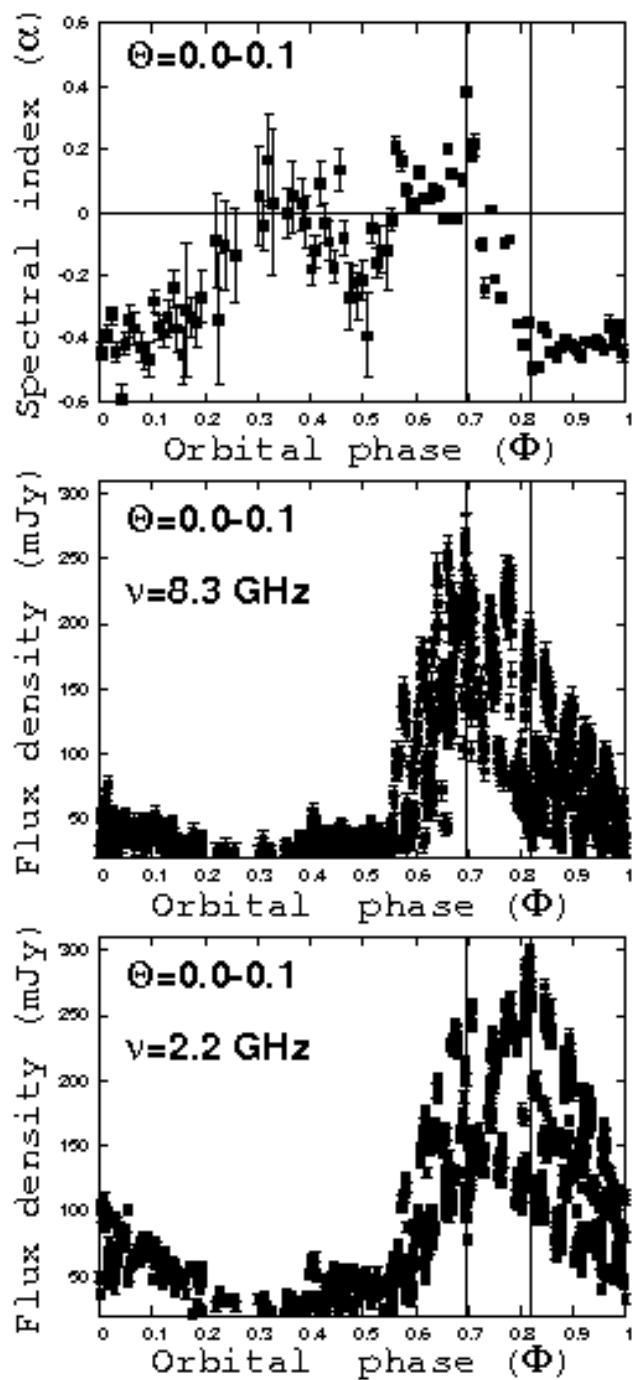
Periastron-peak



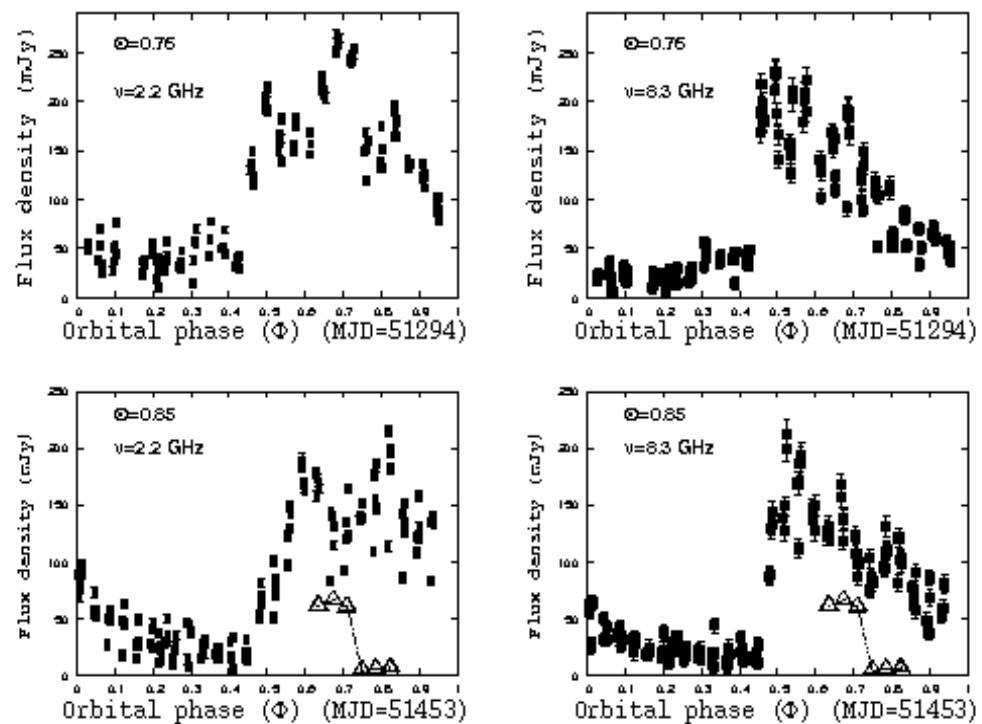
**External Inverse Compton losses
of the electrons**

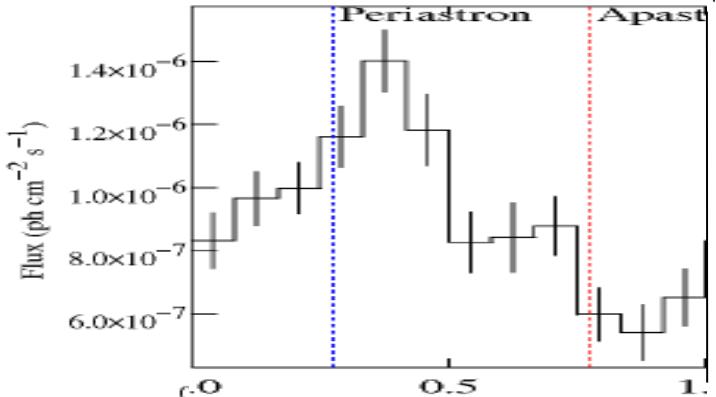
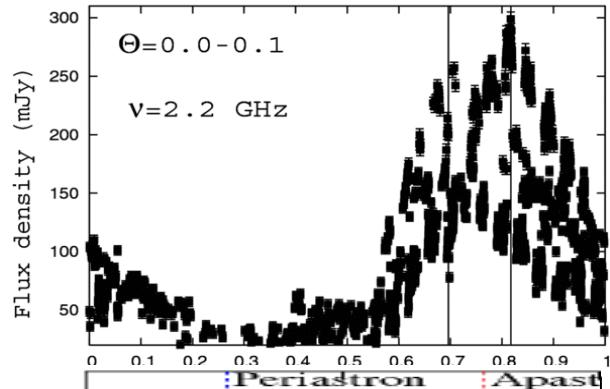
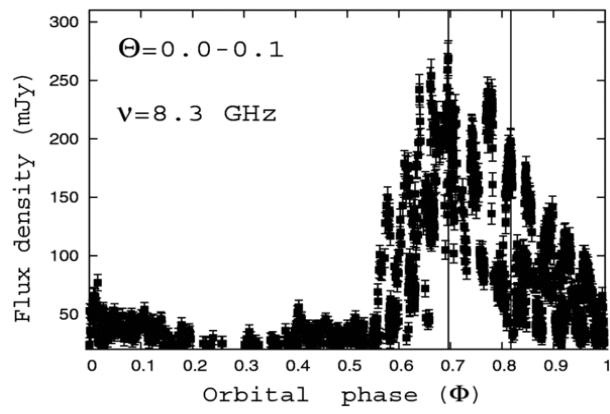
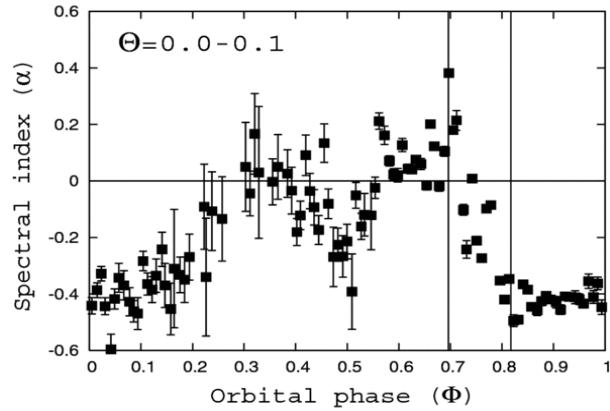
Bosch-Ramon et al. 2006





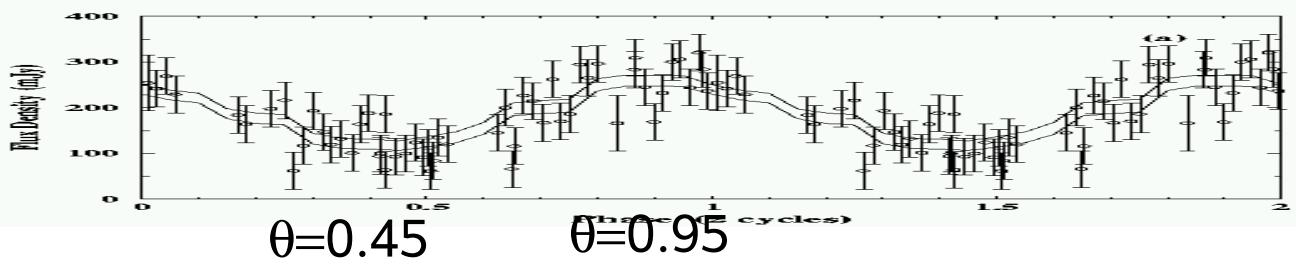
Massi & Kaufman Bernado'
2009





Massi & Kaufman Bernado' 2009

Fermi-LAT 20 MeV–100 GeV.
Abdo et al. 2009



4.6 yr

