

GAMMA-RAY PROPERTIES OF NARROW-LINE SEYFERT 1 GALAXIES

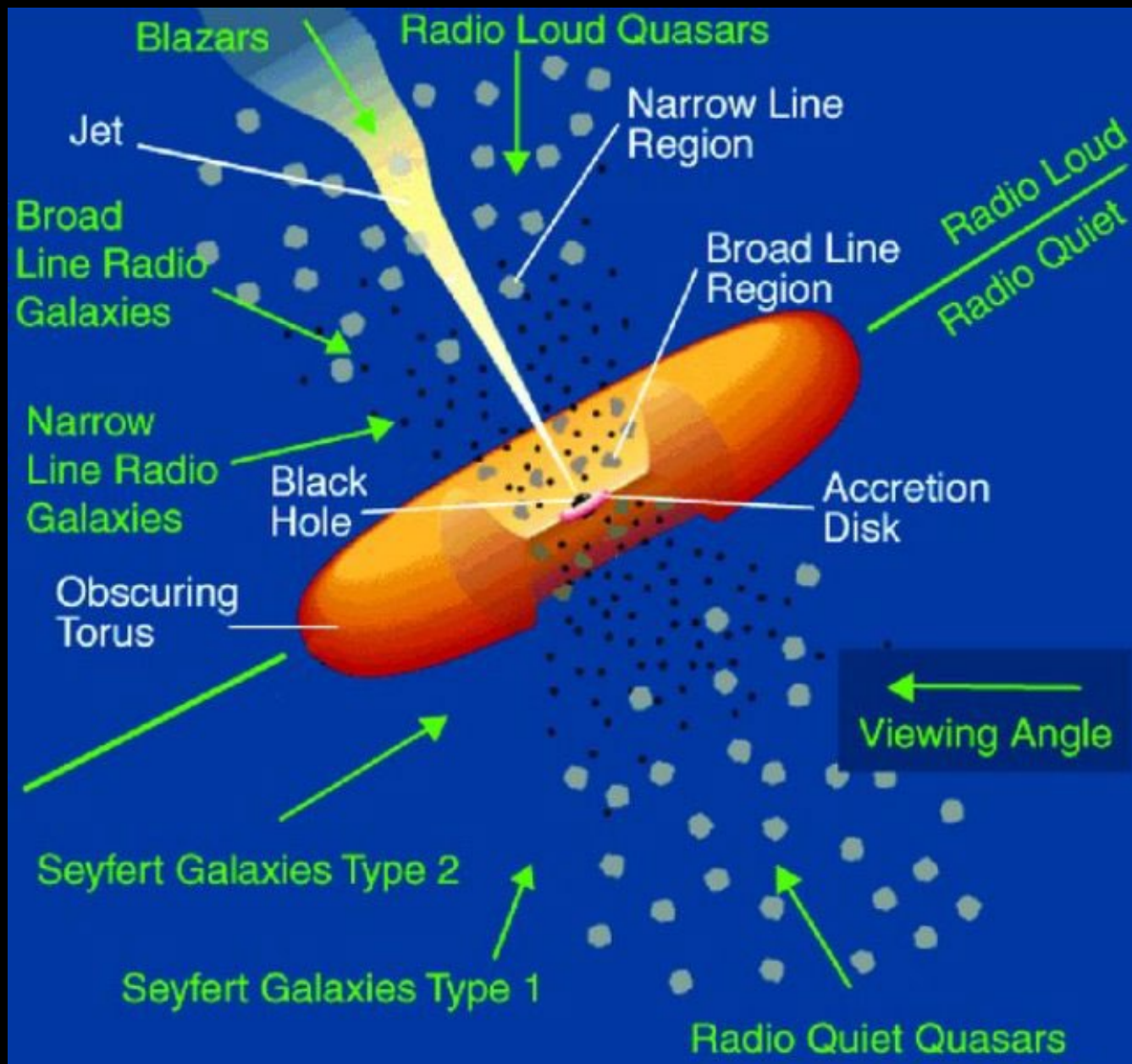
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AGN



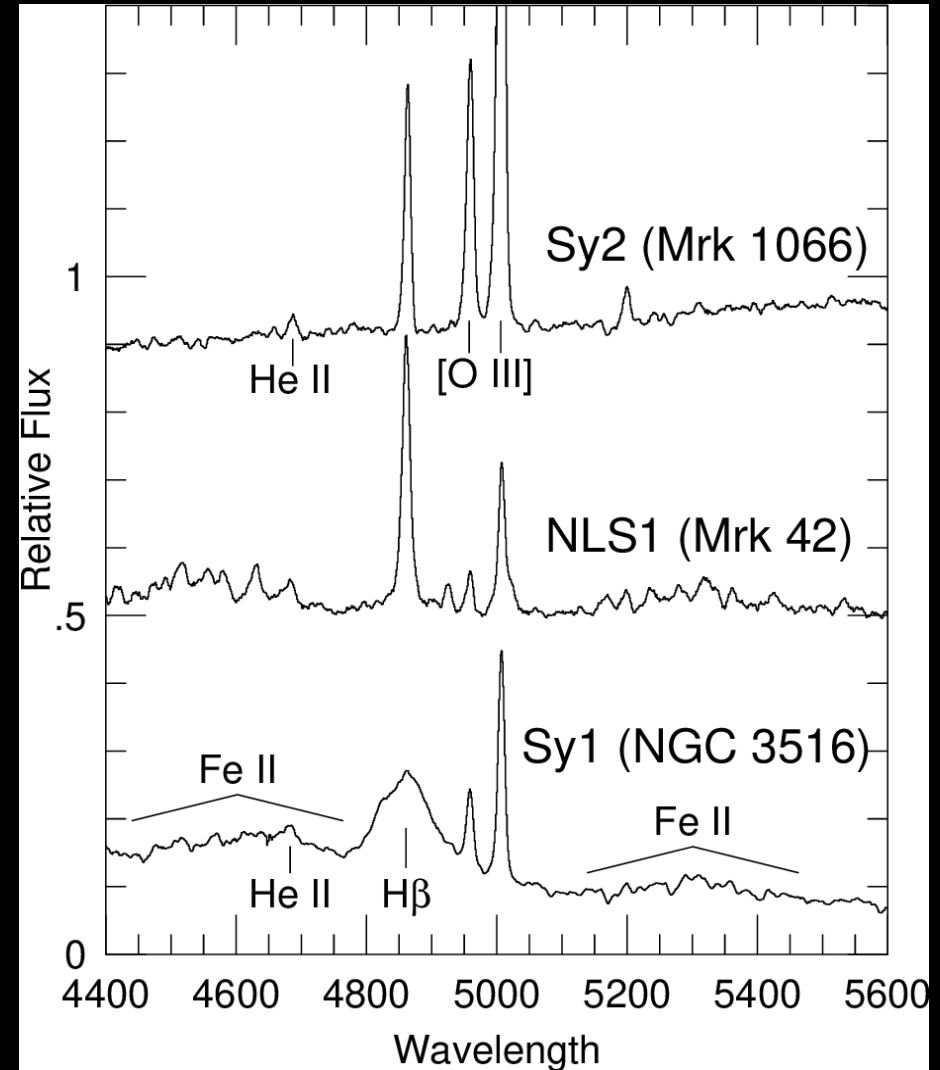
NLS 1

Classification Criteria

- $\text{FWHM}(\text{H}\beta) < 2000 \text{ km/s}$
- $F([\text{O III}])/F(\text{H}\beta) < 3$

Characteristics

- SMBH: $< 10^8 M_{\odot}$
- Eddington ratio: 0.1-1



Pogge R. W., 2000, *New Astron. Rev.*, 44, 381

GAMMA RAY OBSERVATIONS

Gamma rays → relativistic jets

Fermi GST

- Launched 2008
- 10 keV to 300 GeV
- Data needs to be reduced



NASA/DOE/Fermi LAT Collaboration

GOALS

Short term

- The Magic 7: NLS1s (mostly) with extreme radio variability

Long term

- NLS1s that have jets based on radio data
- Largest existing sample of 4000

QUESTIONS

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