THE BROADBAND SED PROPERTIES OF THE MOJAVE SAMPLE
Collaborators

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the MOJAVE collaboration,
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and the **Fermi**/LAT collaboration

* PhD Thesis Work
MOJAVE SEDs

- Radio-selected sample of 135 sources
  - 101 flat-spectrum radio quasars
  - 22 BL Lac objects
  - 8 radio galaxies, 4 unidentified objects
- Continuous monitoring since the mid 1990s
- Simultaneous datasets used, from radio to γ-rays
MOJAVE

The Brightest Radio
Galaxies in the
Northern Sky

http://www.physics.purdue.edu/MOJAVE/
The data


- **Swift** observations
  - X-rays/optical: XRT/UVOT dedicated program, data after Aug 2008 – analysis by C.S. Chang


- **Radio**: F-GAMMA monitoring (Fuhrmann et al., Angelakis et al. 2010)
Polynomial models to each hump

Peak position (frequency and energy) estimated for both humps

$3C\ 111$
Correlations studied

**SED:**
- $v_{\text{sync, peak}}$
- $v_{F, \text{sync, peak}}$
- $v_{IC, \text{peak}}$
- $v_{F, \text{IC, peak}}$

**Radio (VLBI):**
- $S$
- $\alpha$
- $\beta_{\text{app}}$
- $\delta$
- $\Gamma^1$

**X-ray:**
- $F_v$
- $L$
- $\Gamma^2$

**$\gamma$-ray:**
- $F_v$
- $L$
- $\Gamma^2$

1: Lorentz Factor
2: Photon index
Some examples of correlation...