第六届黑洞天体物理年会

Wednesday, 20 April 2011 - Sunday, 24 April 2011

广西省桂林市

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A LONG-LASTING IMPULSIVE CENTRAL ENGINE MODEL FOR SHORT-TYPE GAMMA-RAY BURSTS

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Characterizing AGN Dust Environment based on Various Extinction Indicators

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Computing the Period of Light Variability in Blazar Objects Using Modern Spectral Analysis methods

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On the evolution of the radio luminosity functions in radio-loud AGNs with steep-spectrum

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Summary:

We concentrate our efforts on the study of the correlation between radio galaxies/QSOs and their cores via radio luminosity functions. Using a large combined sample of 1100 radio-loud AGNs selected at low radio frequency, we investigate the radio luminosity function (RLF) at 408 MHz band. We also

estimate the core RLF at 5 GHz band based on the 3CRR sample and the
combined sample. Main results are follow as:

(1). In agrement with previous results, we note a strong correlation between
core and total radio power for RGs and QSOs, but the correlations has large
dispersion, especially for QSOs. We find that the total power of RGs more
strongly depend on core radio power compared to QSOs.

(2). Looking at the possible existence of a redshift cut-off', the steep-
spectrum RLFs we obtained do not show an obvious density decline for
powerful radio sources beyond z ˜ 2.5 over the whole luminosity range, while
the density does dramatically decline at the faint end. We argue that the
evolution of radio AGNs is luminosity-dependent and the so-calledredshift cut-
off' may also exist in steep-spectrum population, probably at higher redshift.

(3). The core RLFs we obtained show that the comoving number density of
radio cores has a persistent decline with redshift, implying a negative density
evolution. We believe that the radio core emission could be gradually powered
by central engines, or their radio-loudness be epoch dependent.

(4). It is noticed that the core RLF is obviously different from the total RLF at
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core and extended lobes could not be co-evolving at radio emission.

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Impose constraint on core temperature of neutron stars through magnetic field decay

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The optical and mid-infrared properties of IRAS F10398+1455

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Identification of Mini Gamma-ray Flares above 100 MeV from the Microquasar Cygnus X-3

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