



13946 - The very unusual gamma-ray source PMNJ1603-4904 and its neighbors

Cycle: 22, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) PMNJ1603-4904	WFC3/UVIS	1	30-Oct-2014 21:06:25.0	yes

1 Total Orbits Used

ABSTRACT

The bright gamma-ray source PMNJ1603-4904 exhibits very unusual multiwavelength properties, suggesting that this source might be the first young radio galaxy detected at GeV energies.

A confirmation of this important result urgently needs excluding possible source confusion which could in principle account for the unusual broadband spectrum.

We propose joint Chandra/ACIS-I (10ksec) and HST-WFC3UVIS (2000s) observations in order to validate this multiwavelength association, which is not trivial in this crowded field close to the Galactic plane. Deep imaging in the optical and X-rays is crucial for understanding the physical nature of this exceptional object and can only be addressed by these instruments requiring high angular resolution and low background.

OBSERVING DESCRIPTION

1 orbit of HST/WFC3/UVIS imaging of target

Proposal 13946 - Visit 01 - The very unusual gamma-ray source PMNJ1603-4904 and its neighbors

Fri Oct 31 01:06:27 GMT 2014

Visit	Proposal 13946, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	PMNJ1603-4904	RA: 16 03 50.6900 (240.9612083d) Dec: -49 04 5.49 (-49.06819d) Equinox: J2000	Redshift: 0.18	V=25+/-1	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) PMNJ1603-4904	WFC3/UVIS, ACCUM, UVIS1-FIX	F625W				Pattern 1, Exps 1-1 in Visit 01 (1)	650 Secs (2600 Secs)

[=>(Pattern 1)]
[=>(Pattern 2)]
[=>(Pattern 3)]
[=>(Pattern 4)]

