



## 10820 - Galaxy properties in a Filament in Abell 851

Cycle: 15, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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### VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	ANY (1) ABELL0851F2	ACS/WFC WFPC2	1	22-May-2006 21:47:17.0	yes
02	ANY (2) ABELL0851F1	ACS/WFC WFPC2	1	22-May-2006 21:47:23.0	yes

2 Total Orbits Used

### ABSTRACT

We propose to image two fields that cover the filament of galaxies that is streaming into the remarkable cluster Abell 851,  $z=0.41$ , one of the two examples of the expected mechanism of cluster growth. These observations will test theories of alteration of galaxy morphology and

## Proposal 10820 - Overview

star formation history for galaxies infalling into intermediate redshift clusters.

### **OBSERVING DESCRIPTION**

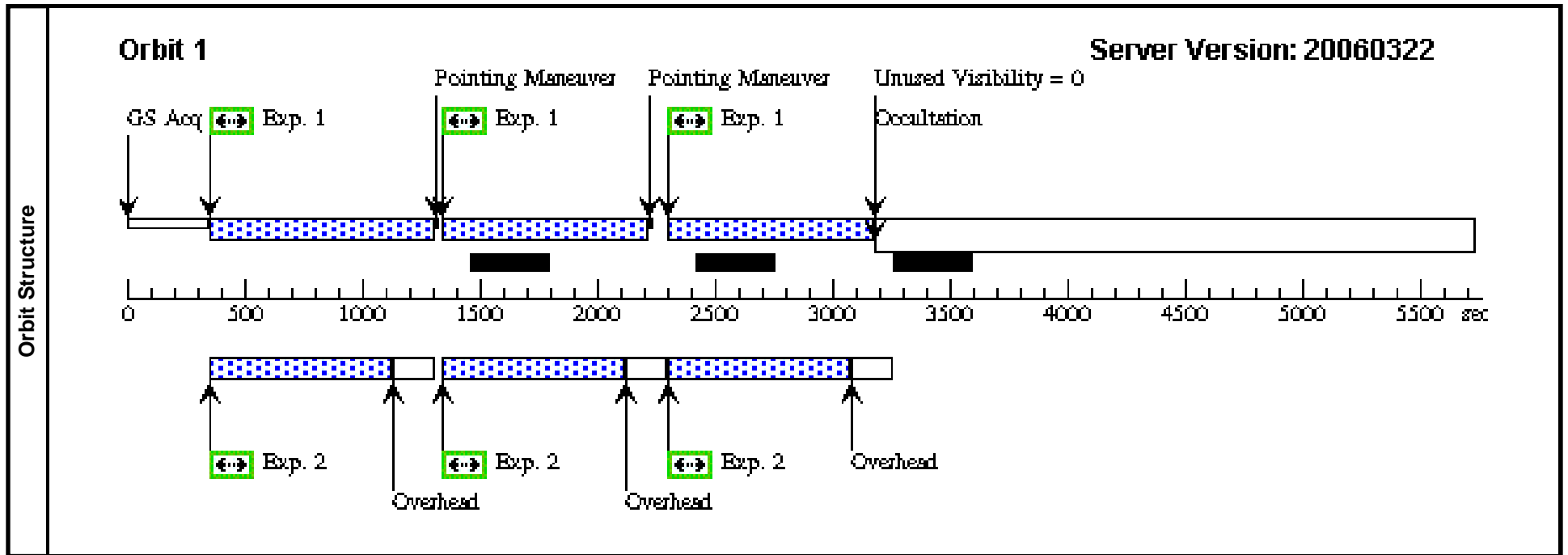
The observations are two adjoining, slightly overlapping, ACS WFC single-orbit F606W exposures of a filament of galaxies proceeding out from the rich cluster A851 at  $z=0.41$ .

The galaxies in the filament span a range of  $R_{\text{mag}} = 21-25$ .

Proposal 10820 - Visit 01 - Galaxy properties in a Filament in Abell 851

Tue May 23 01:47:25 GMT 2006

<b>Visit</b>	<b>Proposal 10820, Visit 01</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: ORIENT 284.0D TO 286.0 D										
	(Visit 01) Warning: PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME										
<b>Diagnosics</b>											
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>	
	(1)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false							(1-2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	ABELL0851F2	RA: 09 42 15.1461 (145.5631088d) Dec: +47 03 55.40 (47.06539d) Equinox: J2000			V=22.0	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>	
	1	(1) ABELL0851F2	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO			Pattern 1-2 (1) Prime + Parallel Group 1-2	745.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]	
	2	ANY	WFPC2, IMAGE, WF2	F606W				Pattern 1-2 (1) Prime + Parallel Group 1-2	600.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]	



Proposal 10820 - Visit 02 - Galaxy properties in a Filament in Abell 851

Tue May 23 01:47:26 GMT 2006

<b>Visit</b>	<b>Proposal 10820, Visit 02</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: SAME ORIENT AS 01									
	(Visit 02) Warning: PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME									
<b>Diagnosics</b>										
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
	(1)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false						(1-2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(2)	ABELL0851F1	RA: 09 42 34.4384 (145.6434933d) Dec: +47 03 8.41 (47.05234d) Equinox: J2000			V=22.0	Reference Frame: ICRS			
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	(2) ABELL0851F1	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO			Pattern 1-2 (1) Prime + Parallel Group 1-2	745.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	ANY	WFPC2, IMAGE, WF2	F606W				Pattern 1-2 (1) Prime + Parallel Group 1-2	600.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]

