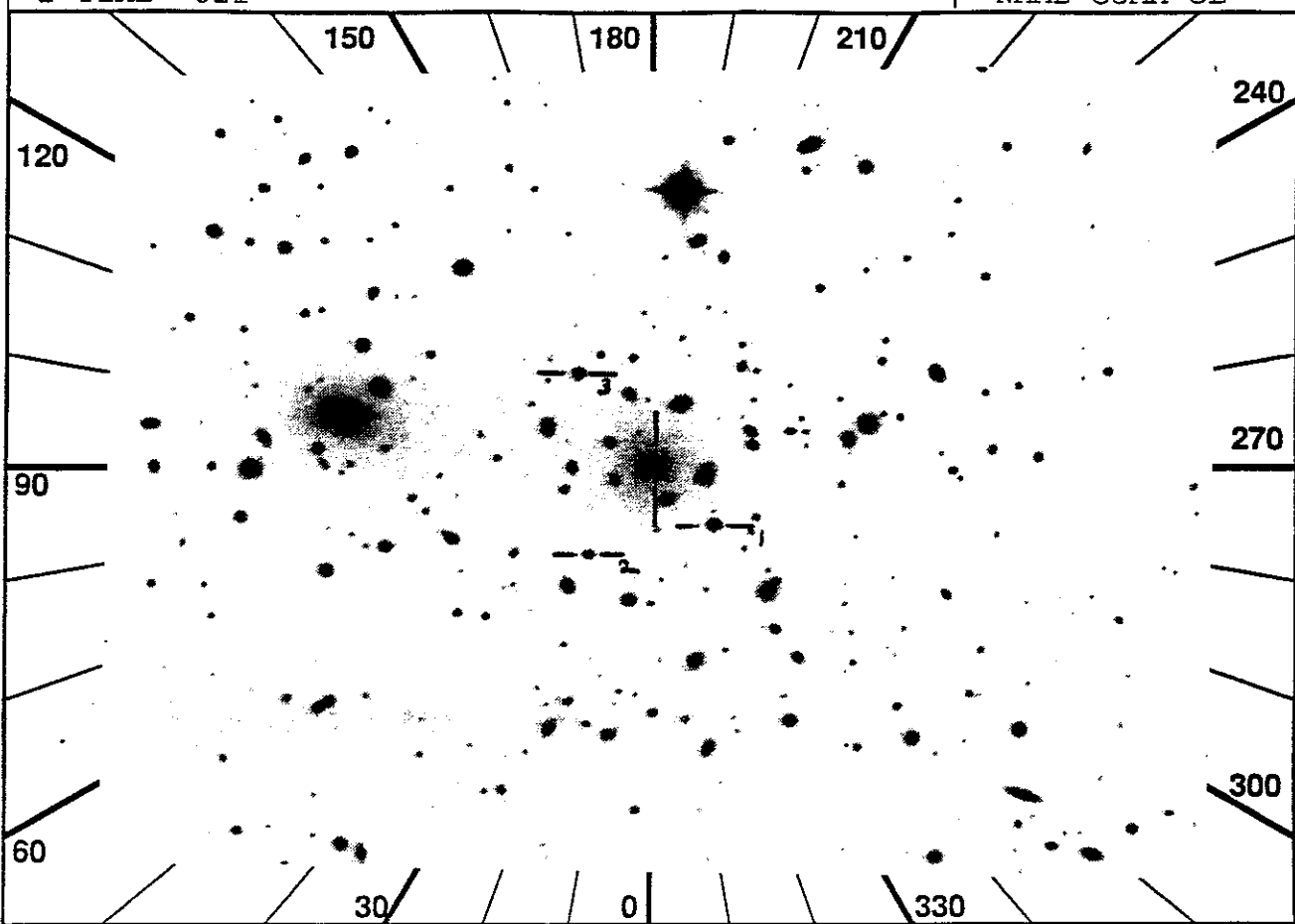


1 RA 194.2957 DEC 28.2286 ROLL 199.21 ID 9101-11  
 2 TIME 821 NAME COMA-CL



SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	195	src sim	15	15	3.2	5	6	4	---	---	---	---	---	COMGAL	
4	W	270	ncn ngd	14	14	1.0		7	4	---	---	---	---	---	NUCLOC	
5	S	U	246	DT	-	T	F	31	a5	31	b5	-	-	-		

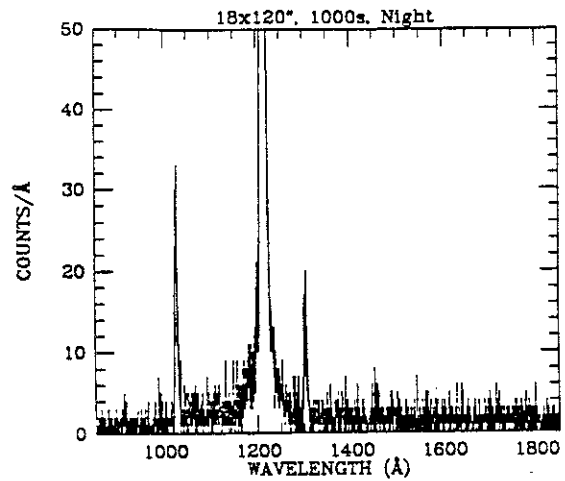
```

6 JAC ITEM 16 0 20 W *ELSE
7 Config H W U 21 W * Config without WUP
8 ----- 22 All BEGIN
9 JAC All SETUP 23 W *IF WUP Deconfig
10 H TV Note: Guide stars may 24 W * WUP ITEM 11 F_+1
11 H be fuzzy galaxies. 25 W * Cur/ITEM 6 in fld, zm
12 W JAC Chk Stat -LOC -CUR RDY 26 W * WUP ITEM 4 (Cur off)
13 IMC BEGIN 27 W * WUP ITEM 7 (Begin)
14 HUT ITEM 5 28 W * Config with WUP
15 W WUP tgt is gal nucleus 29 JOB Observe
16 W *IF WUP target visible 30 JAC All PREVIEW
17 W * WUP PFK cur to target 31 All QUIT
18 W * WUP ITEM 6 (Cntr) 32 -----
19 W * WUP ITEM 4 (Cur off) 33 JAC ITEM 16_1
  
```

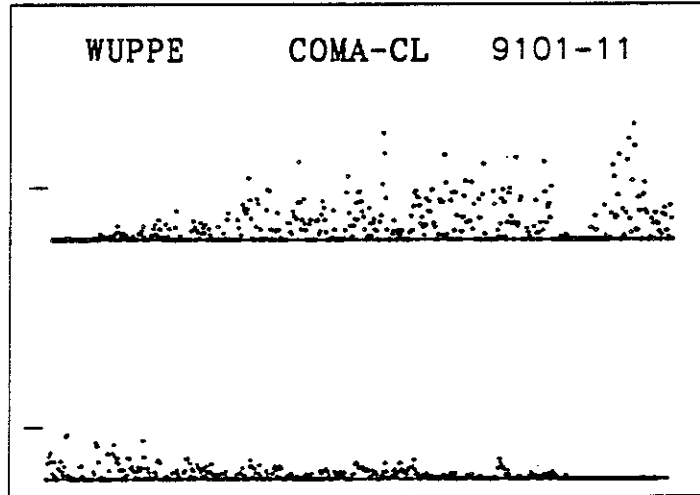
*bright E at center*  
 2

OBJECT: 9101 COMA\_CL (NGC4874)  
KEYWORDS: Elliptical Galaxy in COMA Cluster  
COMMENTS:  
Pointing at nucleus

Simulation assumes B3V star spectrum  
(Matches slope of IUE continuum)  
Scaled for expected HUT flux



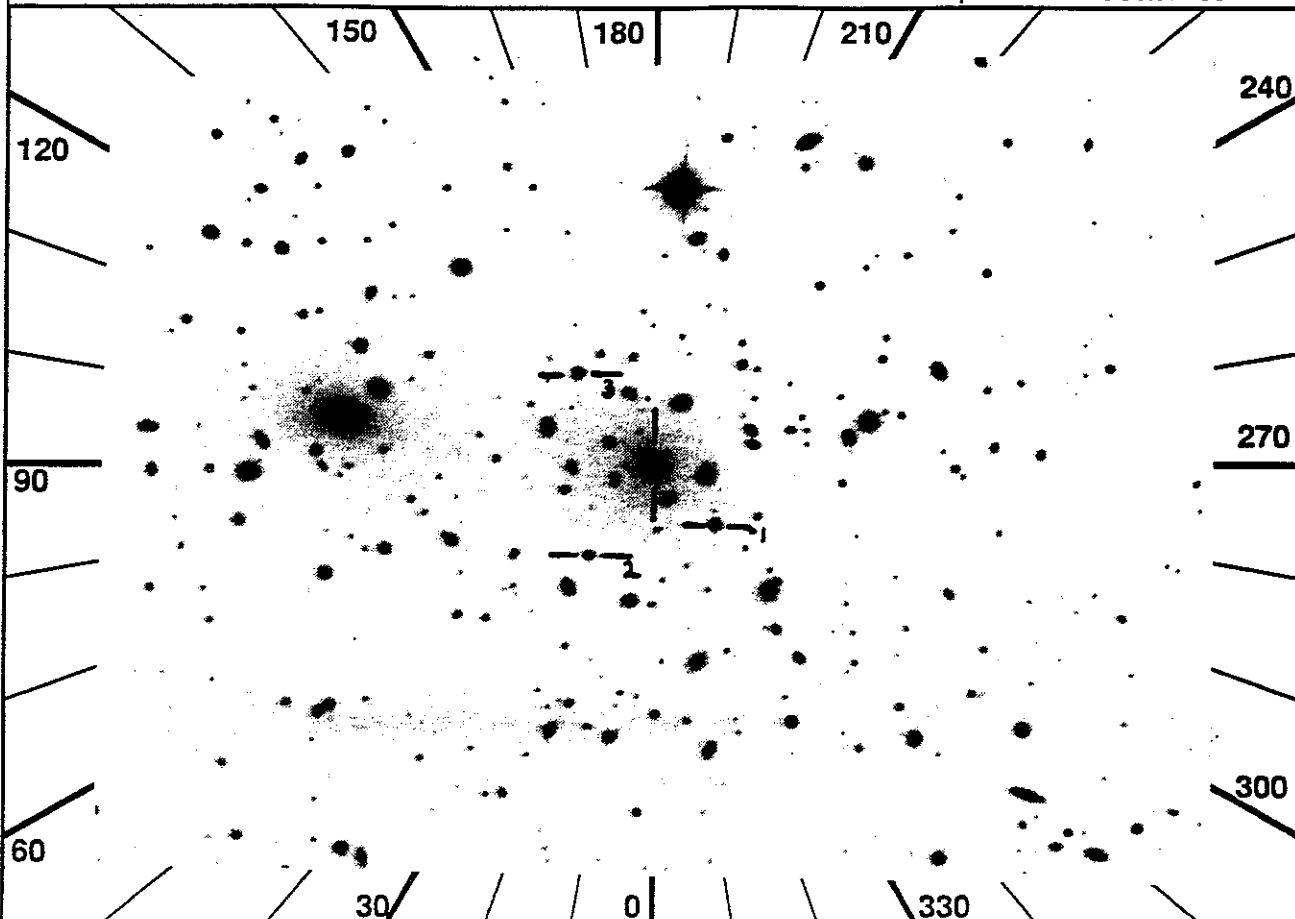
ID: 9101-11  
Names: COMA-CL NGC4874  
Type: gS0/cD, elliptical  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism: Dust scattering  
Comments: Thermal nucleus.  
Wide-angle tailed galaxy.  
Spectrum might provide  
info on the UV upturn in  
elliptical galaxies.



UIT  
Observation Description

1 RA 194.2957 DEC 28.2286 ROLL 199.21  
 2 TIME 1478

ID 9101-12  
 NAME COMA-CL

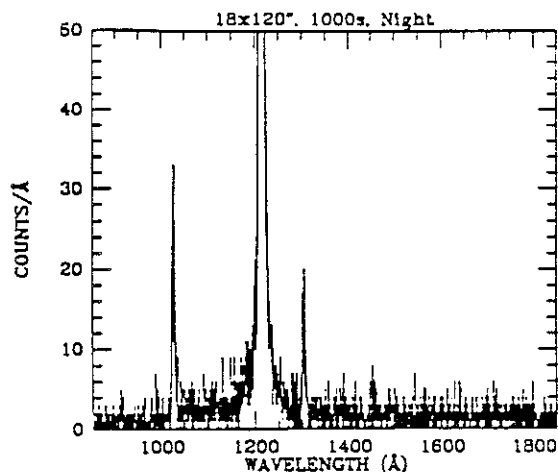


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H 207	src sim	15 15	3.2	5	6	4	---	---	---	---	---	---	---	COMGAL	
4	W 270	ncn ngd	14 14	1.0		7	4	---	---	---	---	---	---	---	NUCLOC	
5	P U 101	DT -		T F	31 a1	31	b1									
6	JAC	ITEM 16_0				20	W									
7		Config H W U				21	W									
8		-----				22										
9	JAC	All SETUP				23	W									
10	H TV	Note: Guide stars may				24	W									
11	H	be fuzzy galaxies.				25	W									
12	W JAC	Chk Stat -LOC -CUR RDY				26	W									
13		IMC BEGIN				27	W									
14		HUT ITEM 5				28	W									
15	W	WUP tgt is gal nucleus				29										
16	W	*IF WUP target visible				30	JAC									
17	W	* WUP PFK cur to target				31										
18	W	* WUP ITEM 6 (Cntr)				32										
19	W	* WUP ITEM 4 (Cur off)				33	JAC									

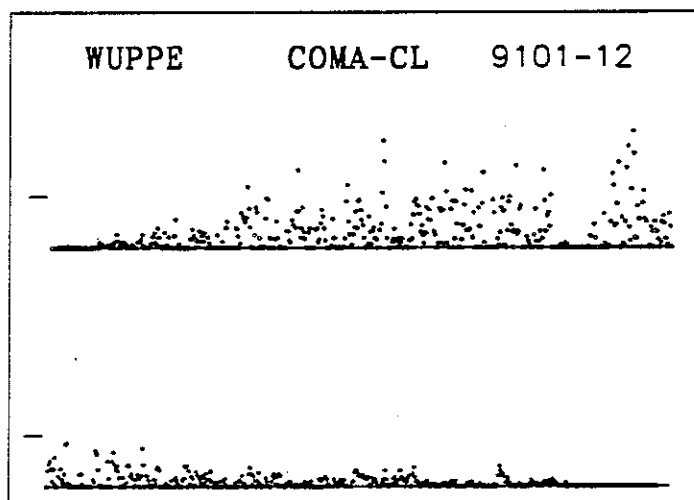
*bright E at center*  
 2

OBJECT: 9101 COMA\_CL (NGC4874)  
KEYWORDS: Elliptical Galaxy in COMA Cluster  
COMMENTS:  
Pointing at nucleus

Simulation assumes B3V star spectrum  
(Matches slope of IUE continuum)  
Scaled for expected MUT flux

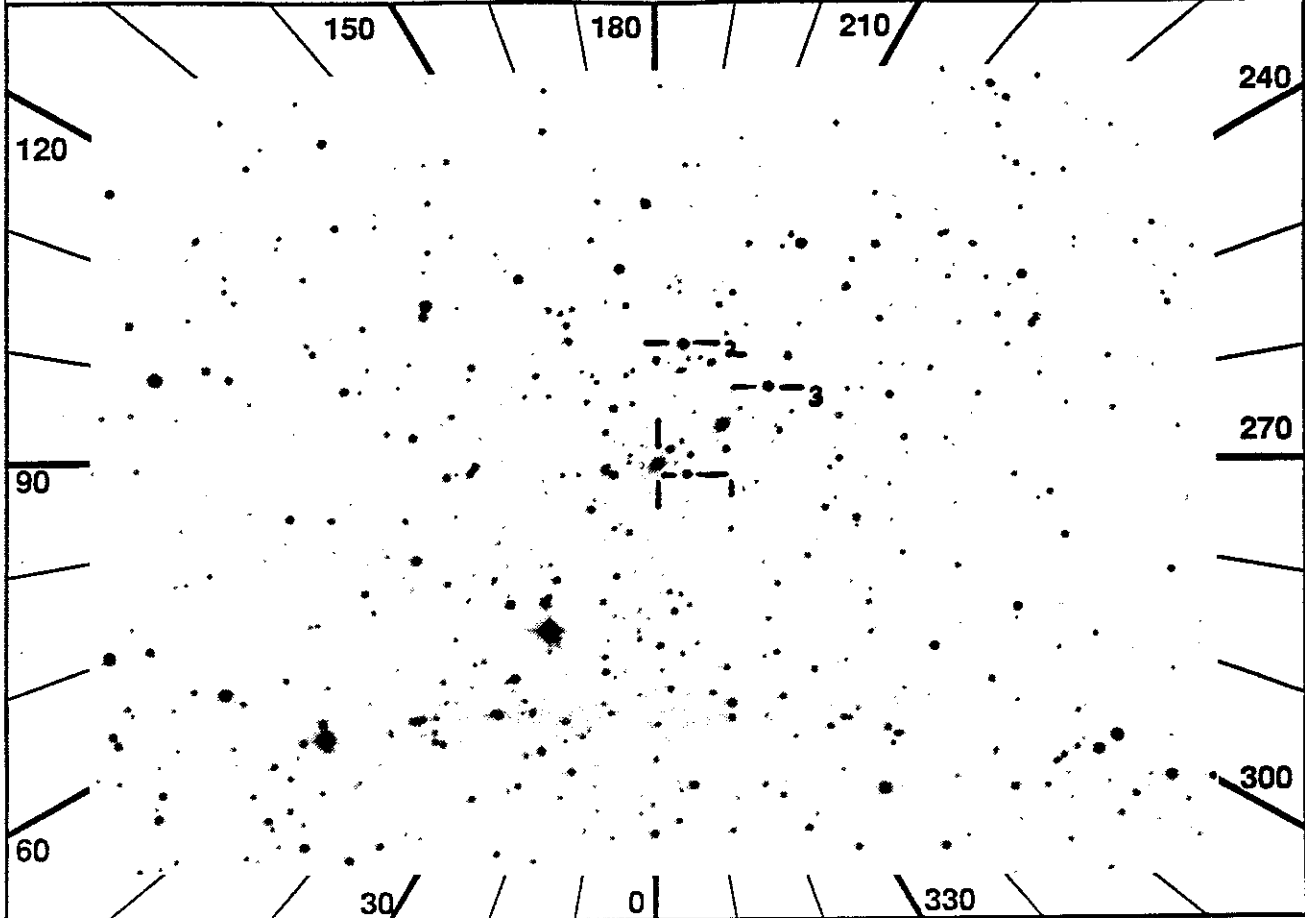


ID: 9101-12  
Names: COMA-CL NGC4874  
Type: GSO/cD, elliptical  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism: Dust scattering  
Comments: Thermal nucleus.  
Wide-angle tailed galaxy.  
Spectrum might provide  
info on the UV upturn in  
elliptical galaxies.



UIT  
Observation Description

1 RA 239.0667 DEC 27.3747 ROLL 154.64 ID 9104-10  
 2 TIME 1798 NAME A2142



SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	55	gde sim <sup>19</sup> <del>14</del>	15	2.3	5	7	4	---	---	---	---	---	---		
4	W	271	ncn ngd	15	15	1.0	7	4	---	7	4	120	---	---	NUCLOC	BKG2
5	S	U	203	DT	-	T	F	31	a1	31	b1	31	b5	-	-	-

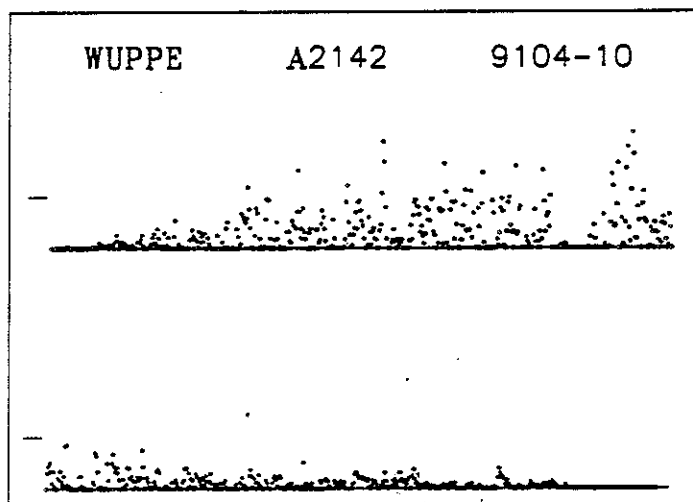
6 JAC ITEM 16 0 20 All BEGIN  
 7 Config H W U 21 W \*IF WUP Deconfig  
 8 ----- 22 W \* WUP ITEM 11 F +1  
 9 JAC All SETUP 23 W \* Cur/ITEM 6 in fld, zm  
 10 W Chk Stat -LOC -CUR RDY 24 W \* WUP ITEM 4 (Cur off)  
 11 IMC BEGIN 25 W \* WUP ITEM 7 (Begin)  
 12 HUT ITEM 5 26 W \* Config with WUP  
 13 W WUP tgt is gal nucleus 27 W NOTE: WUP last seq = BKG  
 14 W \*IF WUP target visible 28 JOB Observe  
 15 W \* WUP PFK cur to target 29 JAC All PREVIEW  
 16 W \* WUP ITEM 6 (Cntr) 30 All QUIT  
 17 W \* WUP ITEM 4 (Cur off) 31 -----  
 18 W \*ELSE 32 JAC ITEM 16\_1  
 19 W \* Config without WUP

*bright <sup>cD</sup> at center (bkgd)*  
 3

Spectrum Not Available

HUT  
Spectrum and Observation Description

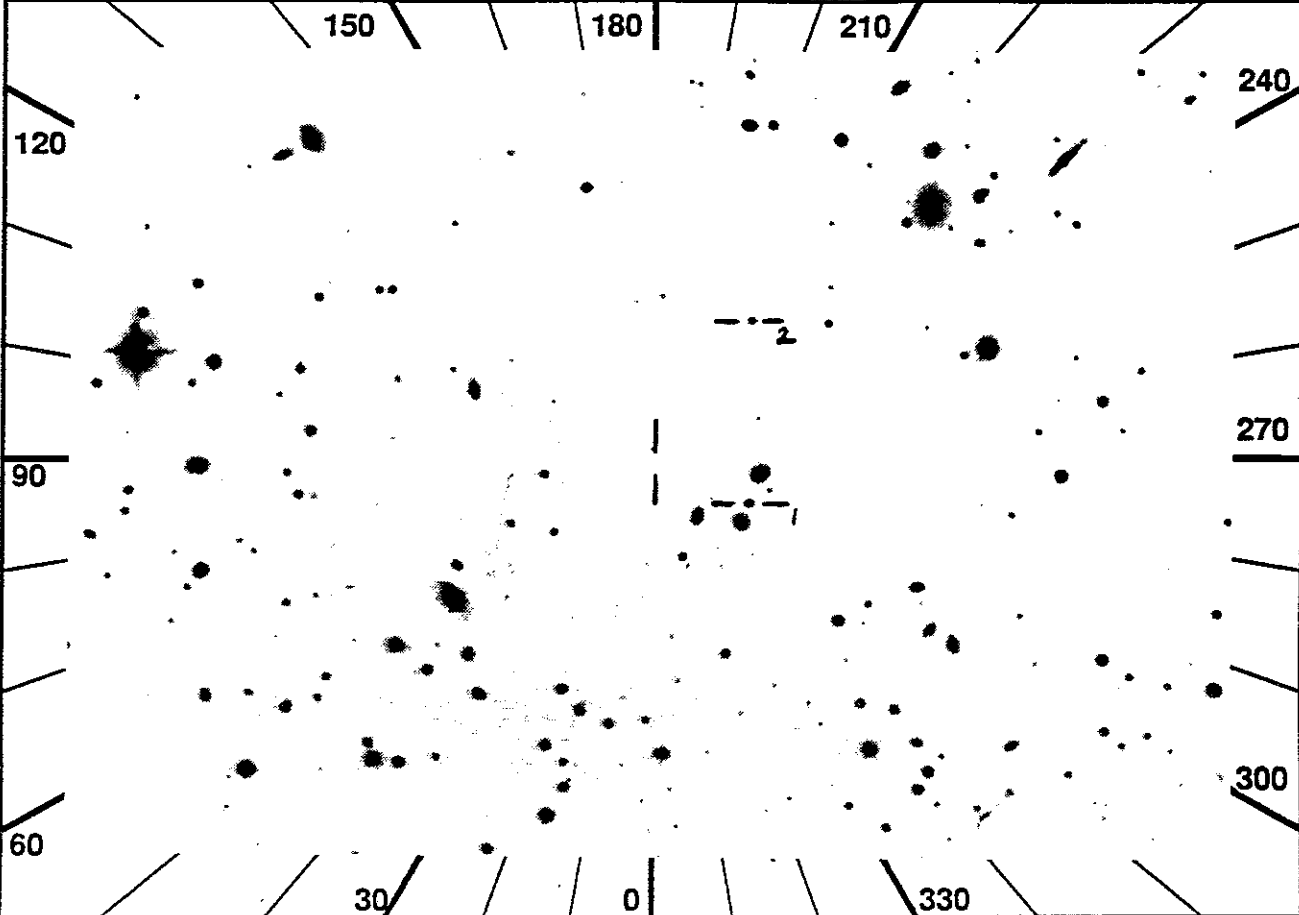
ID: 9104-10  
Names: A2142  
Type:  
§ Pol:  
Pol Var:  
Pos Ang:  
Mechanism: Dust scattering  
Comments: Obs ends with an  
offset and integration  
on the background.  
Spectrum may provide  
info on UV-upturn for  
elliptical galaxies.  
IUE data used for simulated  
spectrum is that of COMA-CL.  
Co-pointing with BBXRT.



UIT  
Observation Description

1 RA 175.4750 DEC 20.1167 ROLL 105.72  
 2 TIME 1365

ID 9202-10  
 NAME AB1367



SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	159	nlc	sim	15	17	3.7	5	2	1	---	---	---	---	NOLOC	
4	W	6	nlc	ngd	15	15	1.0		7	4	120	---	---	---	NOLOC	
5	S	U	226	DT	-	T	F	186	b5	31	a1	---	---	---		
6	JAC	ITEM 16 0							12	All BEGIN						
7		Config H W U							13	JOB Observe						
8		-----							14	JAC All PREVIEW						
9	JAC	All SETUP							15	All QUIT						
10	W	Chk Stat -LOC -PAU RDY							16	-----						
11		IMC BEGIN							17	JAC ITEM 16_1						

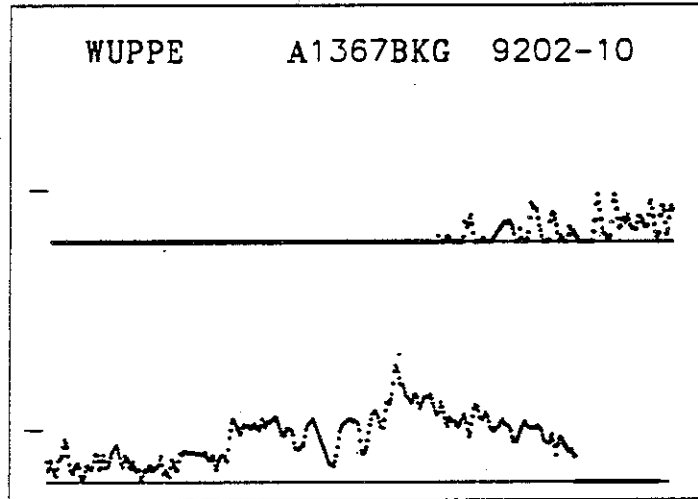
*blank field airglow*

3

Spectrum Not Available

HUT  
Spectrum and Observation Description

ID: 9202-10  
Names: AB1367  
Type: Elliptical gal  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments: Background only



UIT  
Observation Description

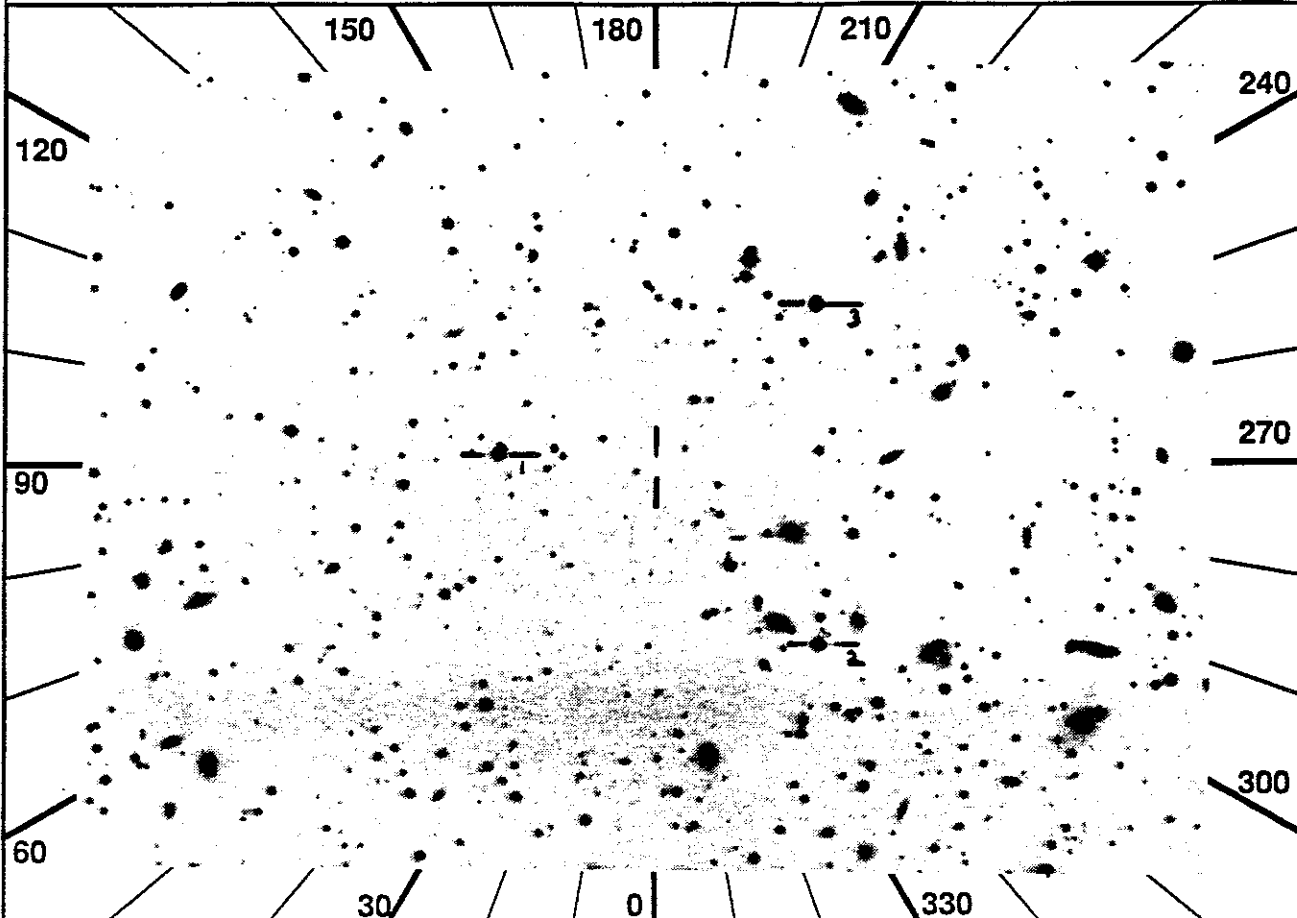


1 RA 240.8958 DEC 17.9500 ROLL 84.82

ID 9203-11

2 TIME 1956

NAME HER-CLUS



SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	156	nlc sim	13	13	3.1	5	6	4	---	---	---	---	---	NOLOC	
4	W	273	ncn ngd	15	15	1.0		6	4	---	---	---	---	---	NUCLOC	
5	P	U	214	DT	-	T	F	6	b6	62	b1	62	a1	31	a2	AS2DFK
6	I		CMD WRI_3900_F00224B4					20								All BEGIN
7	JAC		ITEM 16_0					21	W							*IF WUP Deconfig
8			Config H W U					22	W							* WUP ITEM 11 F_+1
9			-----					23	W							* Cur/ITEM 6 in fld, zm
10	JAC		All SETUP					24	W							* WUP ITEM 4 (Cur off)
11	W		Chk Stat -LOC -CUR RDY					25	W							* WUP ITEM 7 (Begin)
12			IMC BEGIN					26	W							* Config with WUP
13	W		WUP tgt is gal nucleus					27	JOB							Observe
14	W		*IF WUP target visible					28	JAC							All PREVIEW
15	W		* WUP PFK cur to target					29								All QUIT
16	W		* WUP ITEM 6 (Cntr)					30								-----
17	W		* WUP ITEM 4 (Cur off)					31	JAC							ITEM 16_1
18	W		*ELSE					32	I							CMD ISS_3928
19	W		* Config without WUP													

*blank field airglow*

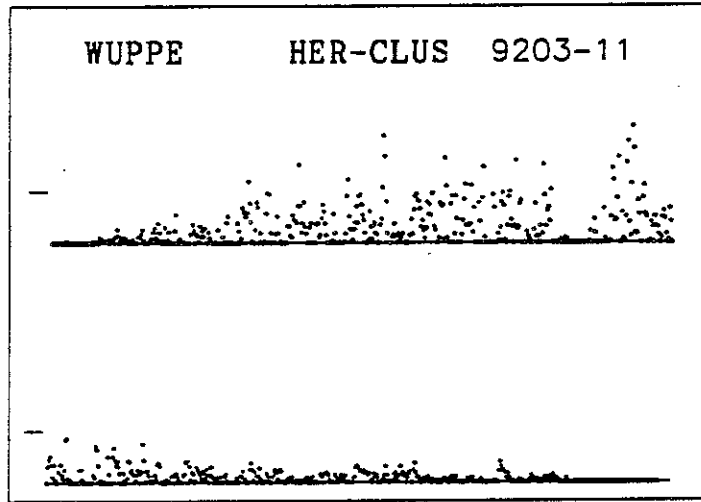
*3*

*what's up WUPPE?*

Spectrum Not Available

HUT  
Spectrum and Observation Description

ID: 9203-11  
Names: HER-CLUS  
Type: cD galaxy  
% Pol:  
Pol Var:  
Pos. Ang:  
Mechanism: Dust scattering  
Comments: Spectrum may  
provide info on the  
UV-upturn in elliptical  
galaxies.  
IUE data used for simulated  
spectrum is that of COMA-CL.  
*Target is offset from HUT pos'n.*



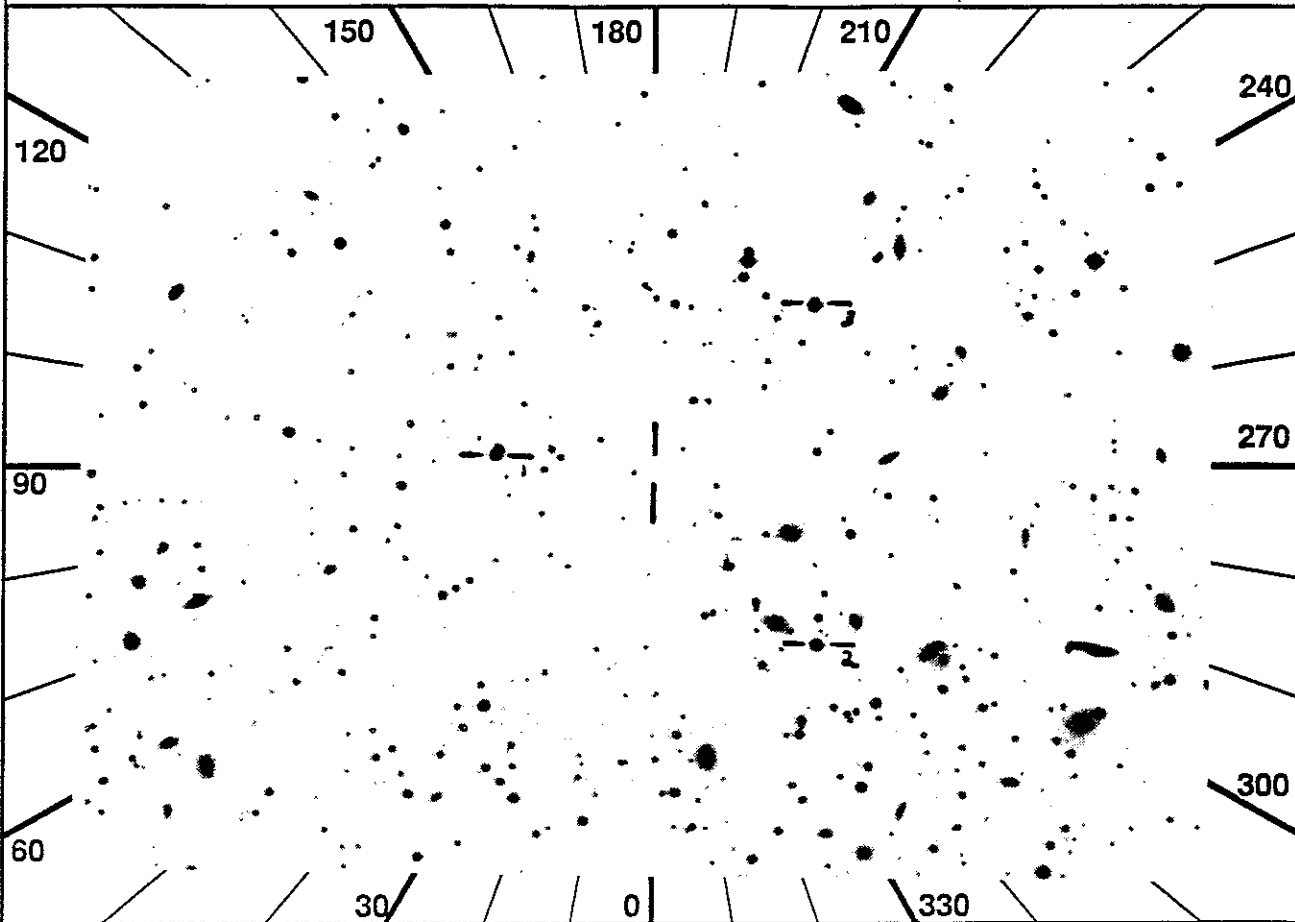
UIT  
Observation Description

1 RA 240.8958 DEC 17.9500 ROLL 84.82

ID 9203-12

2 TIME 1588

NAME HER-CLUS



SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	298	nlc	sim	13	13	3.1	5	6	4	---	---	---	---	NOLOC	
4	W	273	ncn	ngd	15	15	1.0		6	4	---	---	---	---	NUCLOC	
5	S	U	215	DT	-	T	F	66	a6	31	a5	31	b5	---	---	AS2DFK
6	I									20						All BEGIN
7	JAC									21	W					*IF WUP Deconfig
8										22	W					* WUP ITEM 11 F +1
9										23	W					* Cur/ITEM 6 in fld, zm
10	JAC									24	W					* WUP ITEM 4 (Cur off)
11	W									25	W					* WUP ITEM 7 (Begin)
12										26	W					* Config with WUP
13	W									27						JOB Observe
14	W									28	JAC					All PREVIEW
15	W									29						All QUIT
16	W									30						-----
17	W									31	JAC					ITEM 16 1
18	W									32	I					CMD ISS_3928
19	W															* Config without WUP

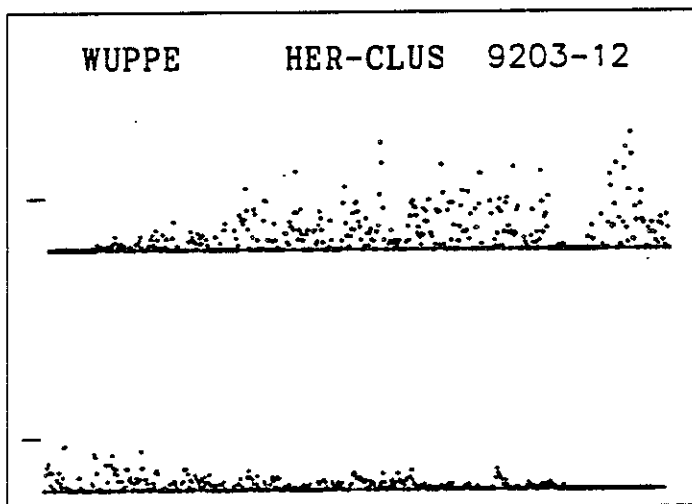
*blank field airglow*

*3*

Spectrum Not Available

HUT  
Spectrum and Observation Description

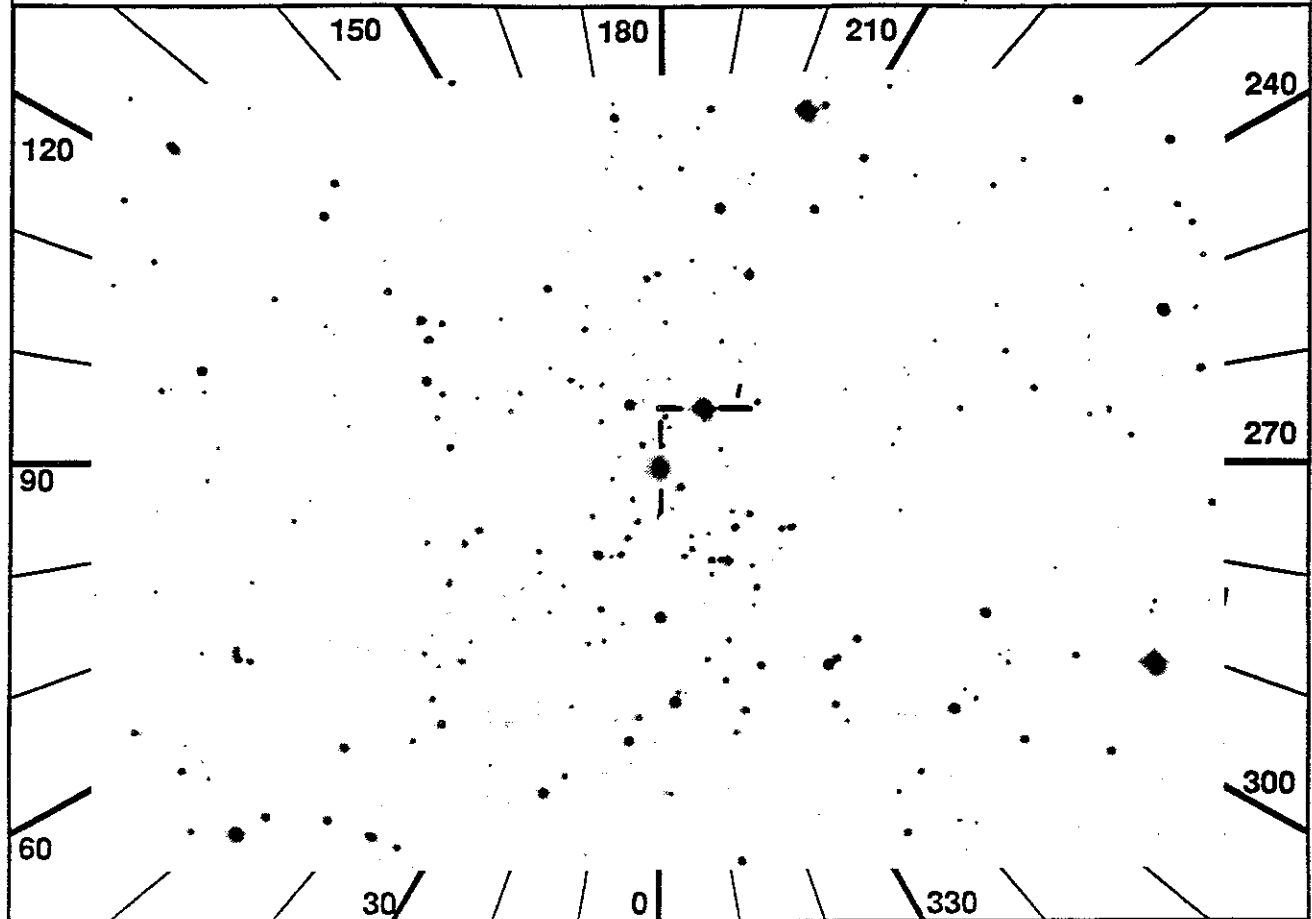
ID: 9203-12  
Names: HER-CLUS  
Type: cD galaxy  
E Pol:  
Pol Var:  
Pos Ang:  
Mechanism: Dust scattering  
Comments: Spectrum may  
provide info on the  
UV-upturn in elliptical  
galaxies.  
IUE data used for simulated  
spectrum is that of COMA-CL.  
*Target is offset from HUT pos'n*



UIT  
Observation Description

1 RA 206.6414 DEC 26.8410 ROLL 285.00  
 2 TIME 1788

ID 9302-10  
 NAME AB1795

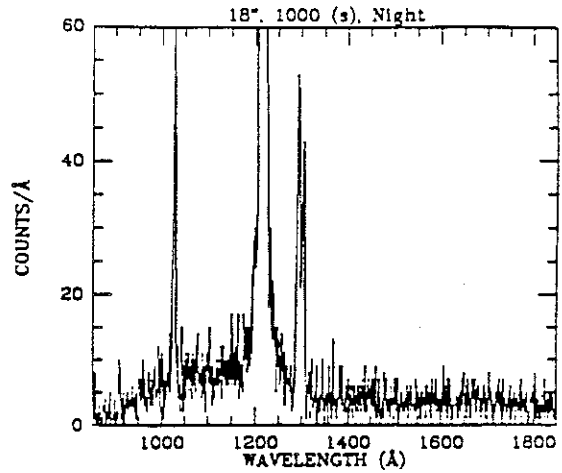


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	H	80	qde	sim	15	11	3.1	5	6	1	---	---	---	---			
4	W	274	ncn	ngd	15	14	1.0		6	4	---	---	---	---	NUCLOC		
5	P	U	101	DT	48	T	F	31	a1	31	b1	---	---	---			
6	JAC	ITEM 16 0										19	W	* Config without WUP			
7		Config H W U										20		All BEGIN			
8		-----										21	W	*IF WUP Deconfig			
9	JAC	All SETUP										22	W	* WUP ITEM 11 F +1			
10	W	Chk Stat -LOC -CUR RDY										23	W	* Cur/ITEM 6 in fld, zm			
11		IMC BEGIN										24	W	* WUP ITEM 4 (Cur off)			
12		HUT ITEM 5										25	W	* WUP ITEM 7 (Begin)			
13	W	WUP tgt is gal nucleus										26	W	* Config with WUP			
14	W	*IF WUP target visible										27		JOB Observe			
15	W	* WUP PFK cur to target										28	JAC	All PREVIEW			
16	W	* WUP ITEM 6 (Cntr)										29		All QUIT			
17	W	* WUP ITEM 4 (Cur off)										30		-----			
18	W	*ELSE										31	JAC	ITEM 16_1			

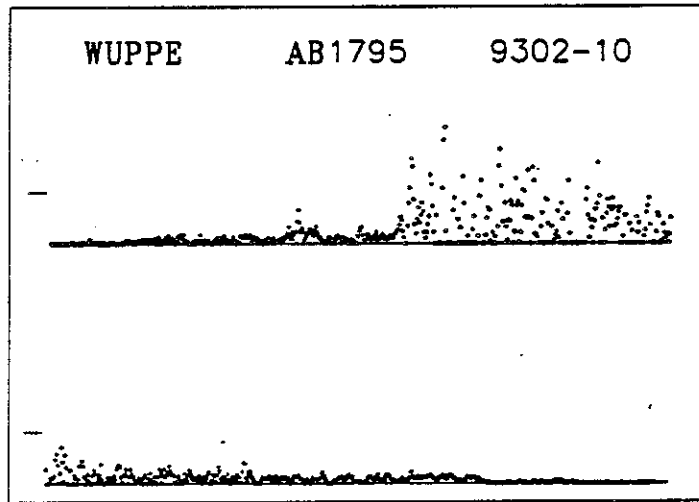
*strong cooling flow - slit along H $\alpha$  filament*

1

OBJECT: AB 1795  
KEYWORDS: Galaxy Cluster Cooling Flow  
COMMENTS:  
Z = 0.0631  
Possible weak, high ionization emission lines



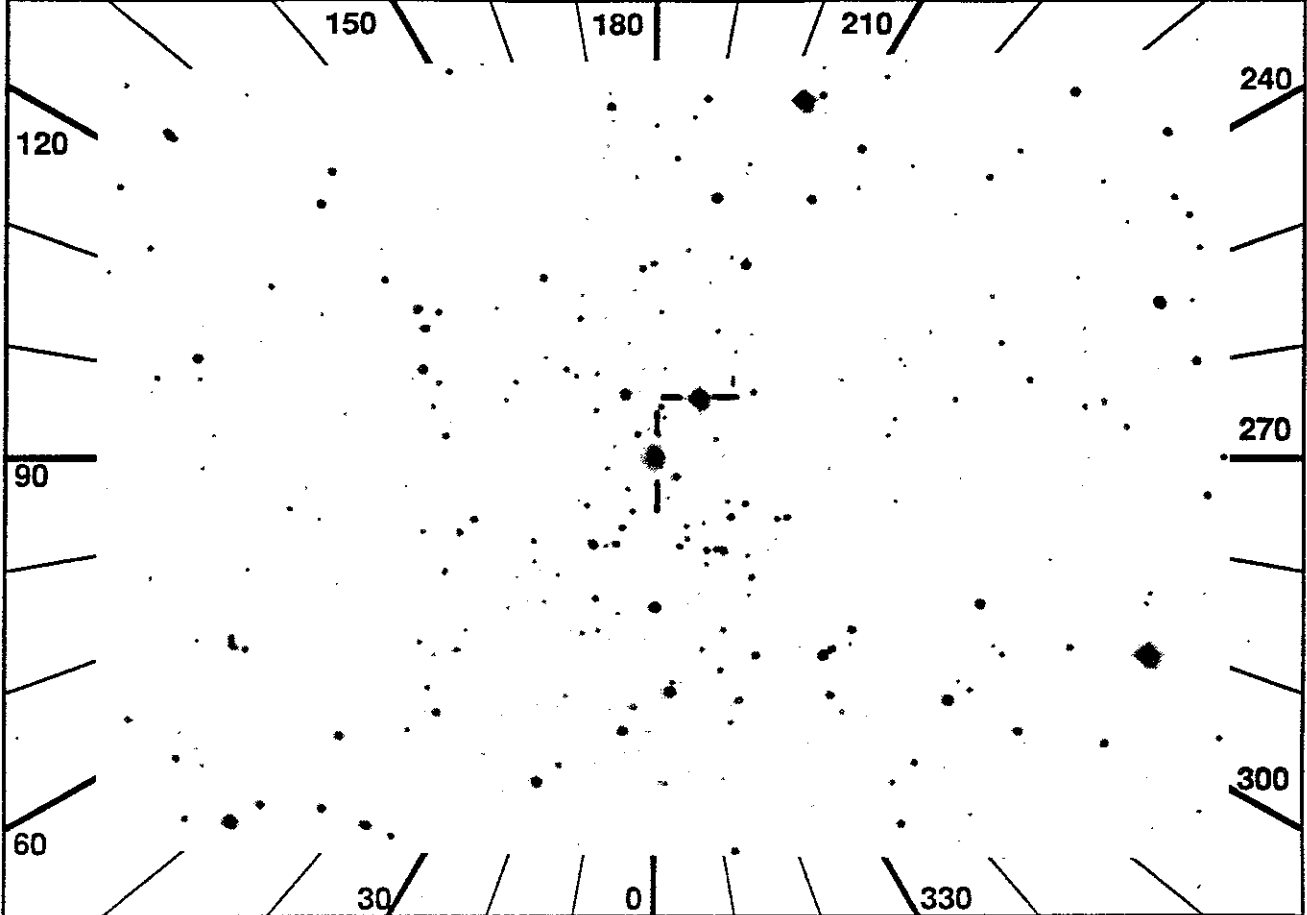
ID: 9302-10  
Names: AB1795  
Type: cD galaxy  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments: Obs ends with an  
offset and integration  
on the background.  
Strong emission lines.  
Spectrum may provide info  
on UV-upturn in  
elliptical galaxies.  
Co-pointing with BBXRT.



UIT  
Observation Description

1 RA 206.6414 DEC 26.8410 ROLL 285.00  
 2 TIME 2504

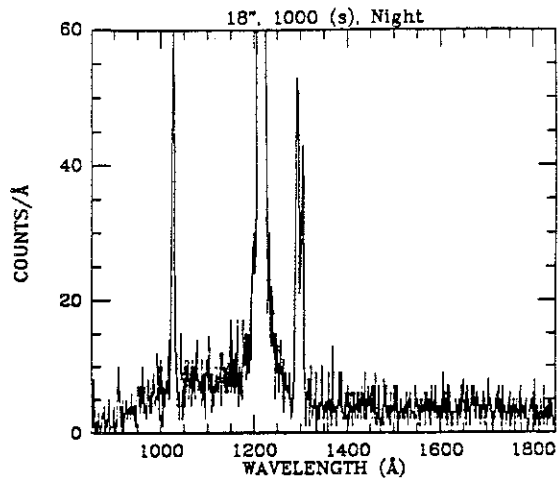
ID 9302-20  
 NAME AB1795



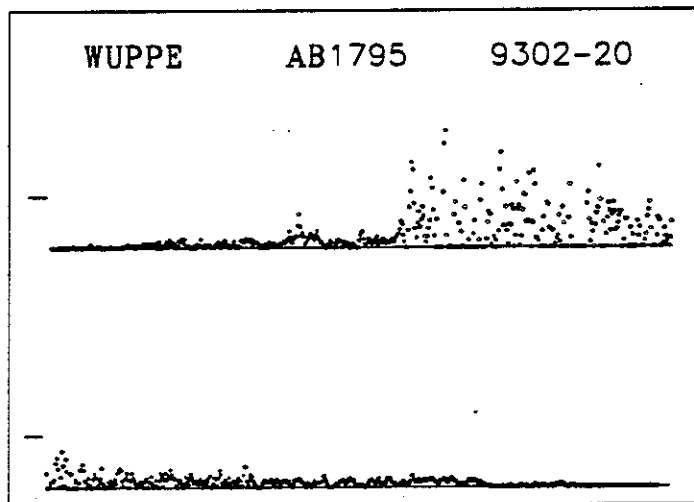
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2		
3	H	73	gde sim	15	11	3.9	5	6	1	---	---	---	---	---				
4	W	284	ncn ngd	15	14	1.0		6	4	120	6	4	---	---	---	NUCLOC BKG1		
5	P	U	216	DT	47	T	F	31	b5	31	b3	---	---	---	---	LTSTRT		
6	JAC	ITEM 16 0										22	W	*IF WUP Deconfig				
7		Config H W U										23	W	* WUP ITEM 11 F +1				
8		-----										24	W	* Cur/ITEM 6 In fld, zm				
9	JAC	All SETUP										25	W	* WUP ITEM 4 (Cur off)				
10	W	Chk Stat -LOC -CUR RDY										26	W	* WUP ITEM 7 (Begin)				
11		IMC BEGIN										27	W	* Config with WUP				
12		HUT ITEM 5										28	W	NOTE: WUP 1st seq = BKG				
13	W	WUP tgt is gal nucleus										29	U	JOB Wait for TIME AVAIL 2184				
14	W	*IF WUP target visible										30	U	UIT BEGIN				
15	W	* WUP PFK cur to target										31	U	JAC Config with UIT				
16	W	* WUP ITEM 6 (Cntr)										32		JOB Observe				
17	W	* WUP ITEM 4 (Cur off)										33	JAC	All PREVIEW				
18	W	*ELSE										34		All QUIT				
19	W	* Config without WUP										35		-----				
20	U	Config without UIT										36	JAC	ITEM 16_1				
21		All BEGIN																

*strong cooling flow - slit along H<sub>2</sub> filament*

OBJECT: AB 1795  
KEYWORDS: Galaxy Cluster Cooling Flow  
COMMENTS:  
Z = 0.0631  
Possible weak, high ionization emission lines



ID: 9302-20  
Names: AB1795  
Type: cD galaxy  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments: Obs ends with an  
offset and integration  
on the background.  
Strong emission lines.  
Spectrum may provide info  
on UV-upturn in  
elliptical galaxies.  
Co-pointing with BBXRT.



UIT  
Observation Description

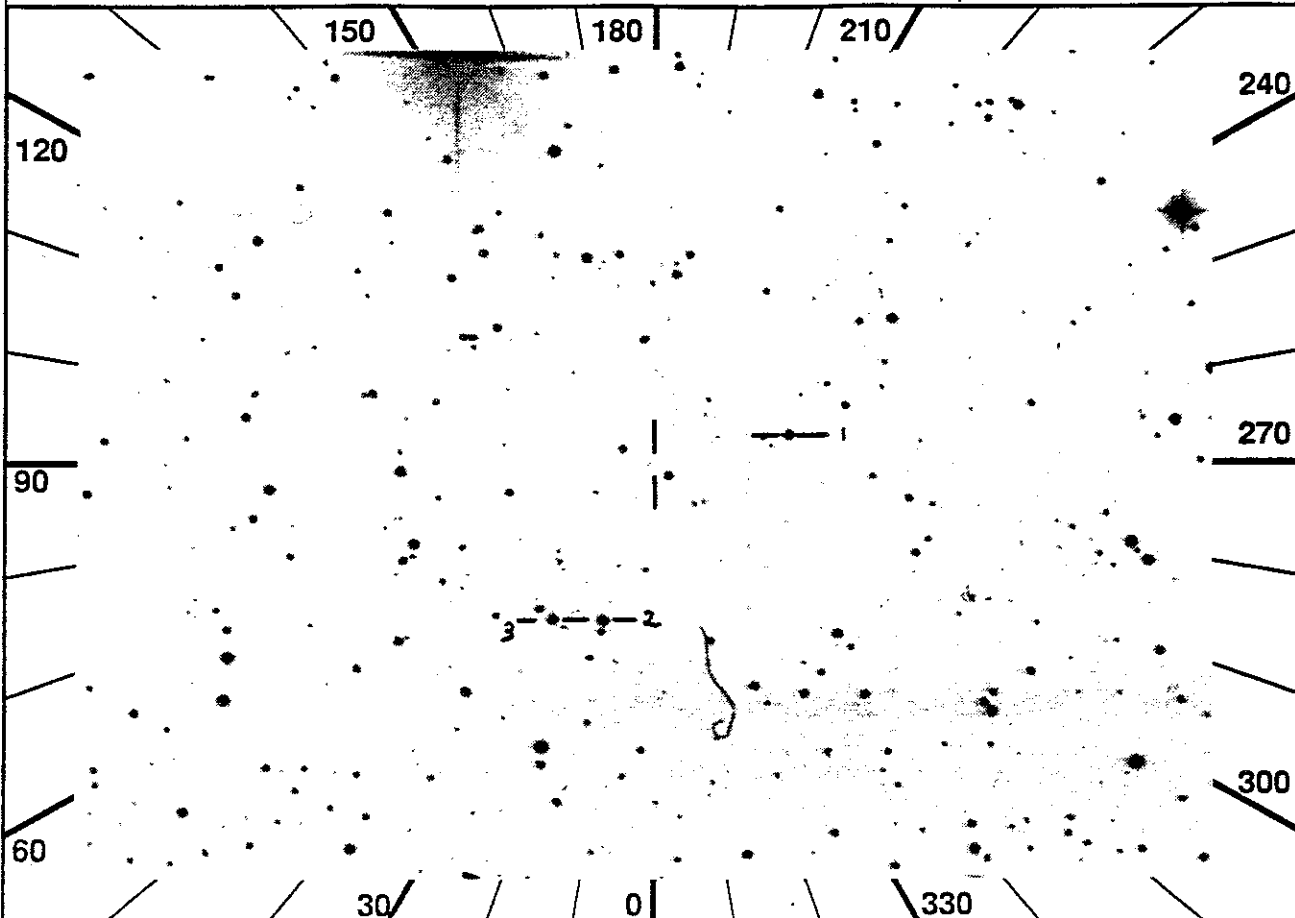


1 RA 133.0625 DEC 17.2667 ROLL 207.95

ID 9402-10

2 TIME 1216

NAME CM1



SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	117	nlc	sim	14	15	3.7	5	2	1	---	---	---	---	NOLOC	
4	W	6	nlc	ngd	15	15	1.0		7	4	120	---	---	---	NOLOC	
5	S	U	213	DT	-	T	F	31	a2	31	a5	31	b5	---		
6	JAC	ITEM 16 0						12	All BEGIN							
7		Config H W U						13	JOB Observe							
8		-----						14	JAC All PREVIEW							
9	JAC	All SETUP						15	All QUIT							
10	W	Chk Stat -LOC -PAU RDY						16	-----							
11		IMC BEGIN						17	JAC ITEM 16_1							

~~MAKE SURE NO VISIBLE TARGET IN HUT SLIT~~

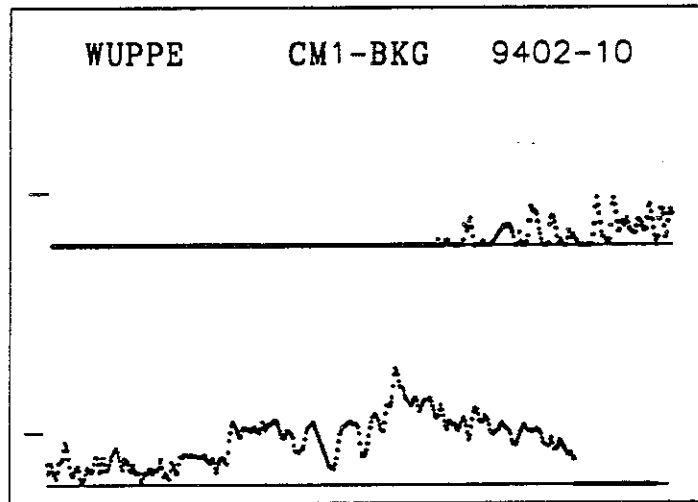
blank field airglow

3

Spectrum Not Available

HUT  
Spectrum and Observation Description

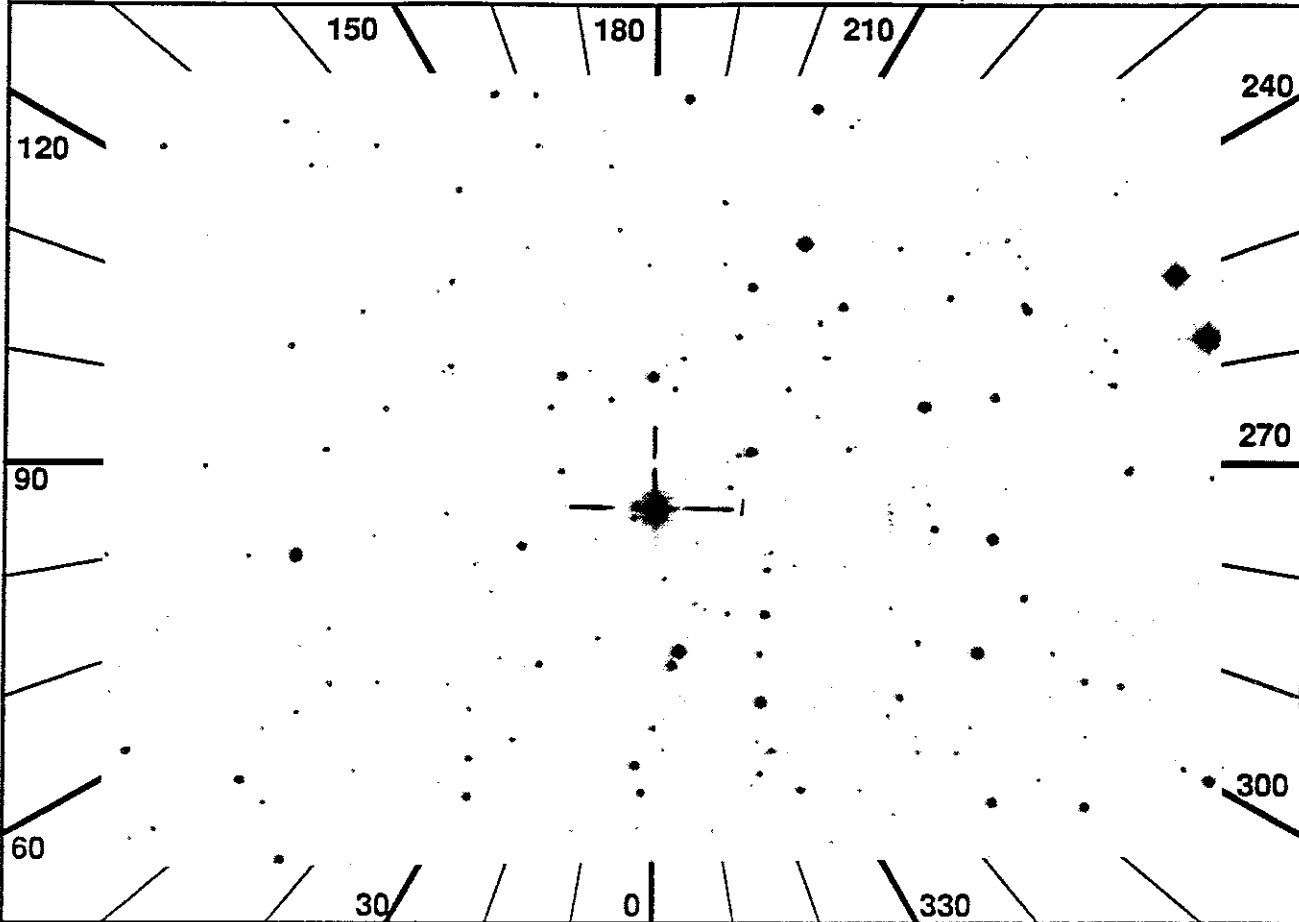
ID: 9402-10  
Names: CM1  
Type:  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments: Background only



UIT  
Observation Description

1 RA 196.5651 DEC 29.6750 ROLL 181.70  
 2 TIME 2377

ID 9405-10  
 NAME SA57



SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	132	nlc sim	9	10	3.7	5	2	1	---	-	-	-	-	NOLOC	
4	W	6	nlc ngd	15	15	1.0		7	4	120	-	-	-	-	NOLOC	
5	S	U	204	DT	-	T	F	24	b5	31	b1	31	a1	-	-	LTSTRT
6	JAC	ITEM 16 0				14	U	JOB	Wait for TIME AVAIL 2184							
7		Config H W U				15	U	UIT BEGIN								
8		-----				16	U	JAC Config with UIT								
9	JAC	All SETUP				17	JOB	Observe								
10	W	Chk Stat -LOC -PAU RDY				18	JAC	All PREVIEW								
11		IMC BEGIN				19		All QUIT								
12	U	Config without UIT				20		-----								
13		All BEGIN				21	JAC	ITEM 16_1								

MAKE SURE NO VISIBLE TARGET IN HUT SLIT

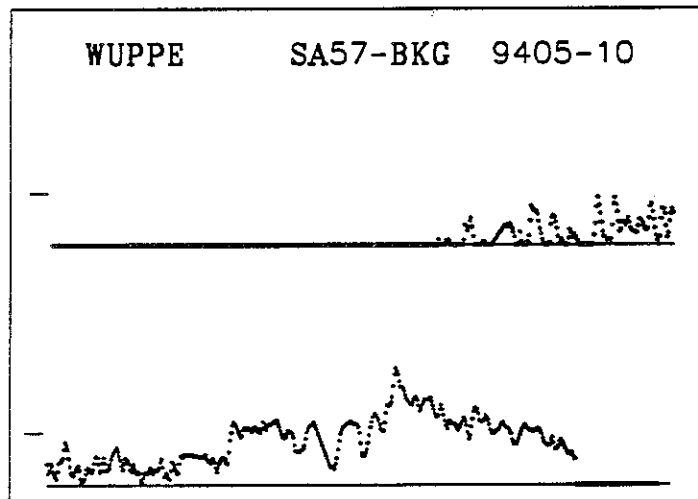
*blank field arglow*

3

Spectrum Not Available

HUT  
Spectrum and Observation Description

ID: 9405-10  
Names: SA57  
Type:  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments: Background only



UIT  
Observation Description