Date (U	ul 21 FEROUND	2 7016	Goodman Spectrograph							Filter 2f2	Offset	
Date (LT): 2 ( FEBOUARET 70 K  Night # 1/1 Page # 1/5  Observer (s) M. B.Av., T.L., M.Weiner,			Detector: BWE (AMBEL)  7 Gain Setting: 7 OUGHT / Artz = ADU			Filter 1f1		Filter 4f1		3f2		
	P.Tucky ant Carlos Corcos Rod	X su	m	Y sum		2f1 3f1		5f1 1f2		4f2 5f2		SOAR
Picture	YEAR PUINAN		Airmass	Begin U.T	Exposure		/ Instr Focu	IS Seeing	FILTER		Comments	
Number	R. A.	DEC.	Epoch	Begin H.A.	ZAPOGUIO	Speci	t/Direct	Sky cond.	Slit	Center		
1-34	Focus			19:02			· · · ·	_	0.45"	40000	box f	Dem = 1350@T=153
	Hat		-	19:53	70.000			_	1"51+	YOOULD	1 ame	lomp out
35 -84	at at			111.7	75 exp. x50				1 21-7	1000	100	%
85	Comp			20:12	0.35							
-89	HgAr + Ne				×5 ×50							
90	bias		-	20;16	x50							
141	Hiltner 6	00	1.23	00:76	305						Hamuy Ai	standard
144	Comp			00:33								
149	SSSJ 040	7 35.2-4 942	201.15	60:41	1205							
152 -156	comp			00:51								
159	555043658	9-545614	1.17	00:56							157 a	and 158 are good. Acquisivia
-161 162	obj 216 Comp		-	01:07							GIVO	7.
-166					1							
167	Galex J0441	53.84-43/83	3,61.12	01:15	2405						No+ a	1
168	ob, 1295 Galex 5044	1832,06-234	37.21.13	01:26							Seein (not +	de conset obje
	obj 1305										Chet to	demmet produ

	1	Goodman Spectrograph									Offset		
Date (UT): 21 Fabruary 2019										2f2			
	\/\\ Page#_		1	Detector:			Filter 1f1	Offset	Filter 4f1	Offset	3f2		
Observ	ver (s) M. Butner,		Gain S	etting:		=ADU	2f1		5f1		4f2		
	M. Wies	rev	X sum		Y sum		3f1						SOAR
Assista	nnt		Amplifiers						1f2		5f2		TELESCOPE
Picture	Object Nam	e i type		Airmass	Begin U.T	Fr	Tel focus/	Instr Focus	Seeing	FILTER	Grating	. (	Comments
Number	R. A.	DEC.		Epoch	Begin H.A.	Exposure	Spect	/Direct	Sky cond	ı. Slit	Center		Johnnerits
169	Galex 5044832	.06-23433	7.8	1.19	01:47	2705							
-171	06; 1305					010							
172	comp				02:05								
76													
177	555 052556,7	7-3317	35	1.13	02:10	1605						DA	WD
-179	opi 239		-			(60)							
180	comp				02:22								
T84	•												
185	WDJ 052844.	01-4304	149.21	1.17	07:77	705						DA	WD
-187	ob; 1459					× 3							
188	comp				02:33	0.35							
-192													
193	WDJ053446.	5-524156	2,29	1.23	02:39	1709						Not	
-197	ob; 1460					1703 ×5						1941	has arm in.
198	comp			1.27	03:00	0,35							has mark at -
-	,				7710	0,23							go not ase
0203	WD5054249.69	7-190107.	34	1.32	0311	40s							
-205	06, 1461					×3							
2010-	COMP				03:20								
210						x5							
111.	555505582	0.4-3556	53	1.26	0331	1555							
213	obi 254					×3							
214	conp				0342	,35							
119	,					XS							danner productiones

, /

	0.51	Goodman Spectrograph									Offset	
Date (UT): 21 February 209					uman o					2f2		
Night #	Night# Page# <u>3/5</u>			Detector :			Filter 1f1	Offset	Filter 4f1	Offset	3f2	
Obsen	ver (s) M. Bulner, D	Tucker	Gain S	etting:		=ADU	2f1		5f1		4f2	
	M. Wiesner		X sum		Y sum			ľ				SOAR
Assista	ant		Amplifiers				3f1		1f2		5f2	TELESCOPE
Picture	Object Name	e / type		Airmass	Begin U.T	Esta a activa	Tel focus/	Instr Focus	Seeing	FILTER	Grating	Comments
Number	R. A.	DEC.		Epoch	Begin H.A.	Exposure	Spect	/Direct	Sky cond	Slit	Center	Comments
219-	Galex 506060	7.38-4739	415.60	1,30	0348	170 X						
221	Ob, 1397					3						
222	COMP				8359	,3 x 5			_			
-116	•											
177	GALEX 3060947	.09-46414	7.2	1.34	0403	110						
-219	05/1401					Х						
230	COMP		7 . ·			,3						
-234	, ,		W			X5	<u> </u>					
735-	GALEX SOBO958	1.70-42575	12.2	1,40	0419	155 x3			-			
7357	66j 1402					x 3						
238	Comp				6430	,3x5				<u> </u>		
240	,								-			
243	GALEY JOB 1135	5.97-402	700.8	1.47	6435	140 = X				ļ		
-245	obj 1403				<del></del>							
246' 150	Conp	)			0445	.3		THE ACT		-		
	Ì			. 0		x5				-		
251	WDS 094 051.7	5-42727	5,46	1.03	0453	190 x				<del> </del>		
253	obi 1526					3						
254- 25 <b>8</b>	conp				0505	3 ×				1	<b>_</b>	
150		- // !-	- / - <i>i</i>			5				<b>_</b>	-	
159-	WD309424D.23	3-463717	+.68	1.06	0517	455 x3				-		
	obj 1527								_	<u> </u>		
	conp				05 17	,3 x5				-		
	7.			1						1		dammat produccion

	2. 5.	Goodman Spectrograph									Offset		
Date (UT): 21 Feb. 2019										2f2			
Night#	<u></u>	4/5_	ı	Detector:			Filter 1f1	Offset	Filter 4f1	Offset	3f2		*
Observ	rer (s) M. Buston P	1. Tucker	Gain S	etting:	=ADU		2f1		5f1		4f2		***
	m. Wies		X sum		Y sum								SOAR
Assista	ant		Amplifiers				3f1		1f2		5f2		TELESCOPE
Picture	Object Nam	e / type		Airmass	Begin U.T	F	Tel focus/	Instr Focu	Seeing	FILTER	Grating		omments
Number				Epoch	Begin H.A.	Exposure	Spect	/Direct	Sky cond	. Slit	Center	Comments	
267-	WO3101341.7	11-52340	0.86	1.09	053/	110 X							
269	obi.1529		*			3							
270-	Comp				0540	Sx 0.35							
274													
225-	GWC-6004			1.03	0552	1×4005							
	065 6004												
226-	WD5 1030 55.U	4-142400	.53	1.08	0616	3×1005							
278	05/1532					3 2 1003							
229-	Comp				0625	5×0,35							
783	·												
284-	GAZEX5104401.5	1-210523	.2	1.0%	0637	3×1705							
Rlo	obj 1413					3 81 705							
287-	comp				0649	3x0.35							
291	`												
292	Galex J105746.	57-231824	1.7	1.07	06:59	2455×3							
-294	05:1415												
295-	Comp				07:15	3×0.35							
299													
300	Solax 5111442	.94-2218	38.3	1.12	07:44	3×1405							
300 ( 302 303 -307	obj 1420												
303	Comp				07:53	3x0.35							
-307	,												
308	Galax J111845	1.25-1824	51.2	1.16	07:58	3×1705							
-30	05, 1421												damnar producciones

	OLEL	7 10			Goo	dman S	nectro	granh			Filter	Offset	
Date (UT): 21 Fab 2019				400	uman o	PCCIIO	grapii			2f2			
Night #	Night# 1/1 Page# 5/5		Detector :				Filter 1f1	Offset	Filter 4f1	Offset	3f2		
Observ	ver (s) M. Butner, M. Wies	D. Tucker.	Gain S			=ADII					110		/×
	M. Wies	iver		-	Veum		2f1		5f1		4f2		SOAD
l	ant	-	X sum Amplifiers		1 30111		3f1		1f2		5f2		TELESCOPE
					I		Tel focus/	Instr Focu		T	Grating		
Picture	Object Nam				Begin U.T	Exposure			Seeing	FILTER		C	omments
Number	R. A.	DEC.		Epoch	Begin H.A.		Speci	/Direct	Sky cond	Slit	Center		
311-	Comp	•			08:10	3×0.35							
315													
316	Galex J112	136.04-244	1007.8	1.17	08:15	3× 1105							
318	ob; 1422												
319	comp				08:25	3 x0.35							***
						5 20,22							
323 324	Galex J112;	728 22-22	1201.3	1.21	08:32	3×6205							
	ab; 1423	-6,03-61	12-1-5	1021	00172	34620			_	<del>                                     </del>			
326 327		l			09:06				_	+			
221	comp	<u> </u>			01.00				_	_			
-331					00.44	2 (20			_	-			
332	LTT 620	18		1.03	09:14	3 4 605				-	_		
-334													
335	comp				09:19	3x0.35							
-339													
		***************************************											
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