

**Bell Observatory
Observing Plan
December 2013
Updated December 4, 2013**

Below is the updated observing plan and procedures for December 2013. Please direct any questions to Dr. Carini

1. Astrometric studies

Obtain 3 -400 second exposures of these sources in the I and R band each, as close to meridian transit (when RA equals the sidereal time) as possible. X and Y are suggested guide star positions. Guiding must be as good as possible. Refocus in R before beginning these observations and refocus in I as well before the I exposures, as there is a small focus offset between the R and I filters. Make sure you enter the source name as listed below for archiving purposes.

Name	RA	Dec R	X	Y
2MASX J01174564+3637145	01 17 45.628	+36 37 14.55	14.94	-834 428
[VV2000] J022601.2+373920	02 26 01.208	+37 39 20.20	16.04	747 -379

2. Blazar Monitoring: Please observe in RA order, from west to east.

I ZW 187	17h28m18.6s	+50°13'10"	
3C 371	18h06m50.7s	+69°49'28"	
1ES 1959+650	19h59m59.85s	+65°08'54.7"	
BL Lac	22h02m43.3s	+42°16'40"	
3C 454.3	22h53m57.7s	+16°08'54"	
CTA 102	22h32m36.40s	+11 43m51.3s	
1ES 2344+514	23h47m04.8s	+51°42'17.87"	
1ES 0120+340	01h23m08.9s	+34 20 50	
*1ES 0229+200	02h32m48.6s	+20 17 17	
*3c66A	02h22m32.7s	+43°03'48"	
AO 0235+164	02h38m38.9s	+16°36'59.3"	500s
J0245.2+1047	02h45m13.5s	+10°47'20"	
H0323+022	03h26m14.0s	+02°25'15"	use 300s exposures
4C 39.12	03h 34m18.4s	+39 12 25	
*0414+009	04h16m52.4s	+01° 05'24"	
0421.5+1433	04h21m33.4s	+14° 33'44"	
[HB89]0420+003	04h22m41.9s	+00° 30'20"	
0422+004	04h24m46.8s	+00° 36'06	
0502+675	05h07m56.2s	+67° 37'24"	
RGB 0521+211	05h21m45.9s	+21 12' 51"	
0528+134	05h30m56.4s	+13° 31'55"	
BL 0647+250	06h50m46.6s	+25 03 00	

RGB 0710+591	07h10m30.0s	+59 08' 20"	
PKS 0716+714	07h21m53.4s	+71° 20' 36"	
PKS 0735+178	07h38m07.4s	+17° 42' 19"	
OI 090.4	07h57m06.6s	+09° 56' 35"	
1ES 0806+524	08h09m49.2s	+52 18 58.4	
OJ 287	08h54m48.9s	+20° 06' 31"	
Q0906+6930	09h06m30.8s	+69° 30' 30.8"	300s exposures
S4 0954+658	09h58m47.2	+65° 33' 55"	
1ES 1011+496	10h15m04.1s	+49° 26' 01"	
MKN 421	11h04m27.4s	+38° 12' 31.8"	
3C 273	12h 29m 06.7s	+02° 03' 09"	
3C 279	12h 56m 11.1s	-05° 47' 22"	