

# GBT Observing Schedule for April 2004

Proposal	Investigators	Institute	NRAO Friend	Title	Bands	Back Ends	Days *	Hrs *
BW070	Walker, R. C. Wrobel, J. Ly, C.	NRAO-SOC NRAO-SOC University of Arizona	F. D. Ghigo	High Sensitivity Observations of the M84 Jet Base [R. C. Walker]	Q	V	4 5	12.50
GBT01A-061	Lane, W.M. Briggs, F. H. Chengalur, J. Kanekar, N. Kassim, N. E.	Naval Research Lab ANU NCRA (TIFR) Kapteyn Astronomical Institute NRL	R. Maddalena A. Minter	A blind search for redshifted HI 21cm Absorption [W.M. Lane]	68	SP	11 12 13 14	28.50
GBT01A-064	Cordes, J. M. Lazio, T. J. McLaughlin, M. Backer, D. C. Chatterjee, S. Kassim, N. E.	NAIC and Cornell University Naval Research Laboratory University of Manchester University of California, Berkeley Cornell University NRL	K. O'Neil G. I. Langston	Search for Pulsars from Point Sources in the Galactic Center [J. M. Cordes]	X	BGS	25 26 28 30 [27 29]	24.00 [11.75]
GBT02A-028	Braatz, J. A. Langston, G. I. McMullin, J. Garwood, R.	NRAO NRAO-GB NRAO-CV NRAO-CV	J. A. Braatz	Exploring the Radio Spectrum of Orion A and W51 [J. A. Braatz]	6UKQ	S	7	6.00
GBT02A-031	Lockman, F. J.	NRAO-GB		Galactic HI Mapping of X-Ray, UV, and Optical Deep Fields [F. J. Lockman]	L	SP	1	3.75
GBT02A-046	Braatz, J. A. Henkel, C. Wilson, A. S.	NRAO Max-Planck-Institut fur Radioa University of Maryland	J. A. Braatz	Monitoring a Maser Disk in Mrk 1419 [J. A. Braatz]	K	S	(27 28 29 30)	(6.00)
GBT02A-063	Claussen, M. J. Wootten, H. A. Marvel, K. Wilking, B. A.	NRAO-SOC NRAO-CV American Astronomical Society University of Missouri	R. Maddalena K. O'Neil G. I.	Water Maser Monitoring of Low and Intermediate Mass Young Stellar Objects [M. J. Claussen]	K	S	9 (27 29)	4.00 (13.00)
GBT02A-069	Fisher, R.	NRAO Green Bank Facility		Galaxy Survey of HI emission [R. Fisher]	L	SP	10 17 18	13.25
GBT02C-012	Hollis, J. M. Lovas, F. J. Jewell, P. R. Kisiel, Z.	NASA/GSFC National Institute of Standards and Technology NRAO-GB Institute of Physics, Polish Academy of Sciences	P. R. Jewell	A Search for the First Nucleic Acid Base Biomarker: Interstellar Pyrimidine [J. M. Hollis]	UK	S	5 6 15 16 17	91.50
GBT02C-043	Finkbeiner, D. Heiles, C. E. Schlegel, D. Frank, C.	Princeton University (Astrophysics) University of California Princeton University (Astrophysics) University of Maryland	F. D. Ghigo	Microwave Emission from Spinning Dust [D. Finkbeiner]	XUK	S	23 24 (25)	20.00 (10.00)
GBT02C-054	Braatz, J. A. Henkel, C.	NRAO Max-Planck-Institut fur Radioa	J. A. Braatz	Measuring Nuclear Disks in NGC 1386 and IC 2560 (H2O) [J. A. Braatz]	K	S	(26 28 30)	(13.00)

Gregorian Bands: Q=40-50GHz, K=18-26.5GHz, U=12.4-15.4GHz, X=8.2-10.0GHz, C=3.95-5.85GHz, S=1.73-2.6GHz, L=1.15-1.73GHz

Prime Focus Bands: 3=0.29-0.395GHz, 4=0.385-0.520GHz, 6=0.51-0.69GHz, 8=0.68-0.92GHz, A=0.91-1.23GHz

\* [ ] indicates secondary project; ( ) indicates primary project

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	Wilson, A. S. Greenhill, L. J. Moran, J. M.	University of Maryland Harvard-Smithsonian CfA						
GBT03A-015	Lane, W.M. Kanekar, N. Ellison, S.E. Chengalur, J.	Naval Research Lab Kapteyn Astronomical Institute European Southern Observatory NCRA (TIFR)	A. Minter	A Search for 21cm Absorption in High Redshift Damped Lyman-Alpha Absorbers [W.M. Lane]	6	P	13	4.00
GBT03A-016	Stairs, I. Manchester, D.R. N. Lyne, A. G.	University of British Columbia Australia Telescope NRAL	G. I. Langston	The Physics of a Massive Pulsar System [I. Stairs]	L	BP	3	2.25
GBT03B-013	Yun, M. Schneider, S. E. Brinks, E. Bravo-Alfaro, H.	University of Massachusetts University of Massachusetts INAOE Universidad de Guanajuato, Mexico	G. I. Langston	An Unbiased HI Survey of the Coma Cluster and Beyond [M. Yun]	L	S	1 3	5.50
GBT03B-015	Ransom, S. Stairs, I. Kaspi, V. Hessels, J. W. T. Backer, D. C.	McGill University University of British Columbia McGill University McGill University University of California, Berkeley	R. Maddalena	Timing the Pulsars in the Globular Cluster M30 [S. Ransom]	LS	B	3	3.75
GBT03C-009	Darling, J.	Carnegie Institution of Washington (Headquartes)	R. Maddalena A. Minter	A Direct Measurement of Fine Structure "Constant" Evolution from OH and HI Absorption Lines [J. Darling]	6	S	9 10	15.00
GBT03C-026	Fish, V.L. Reid, M. J. Menten, K. M.	Harvard Smithsonian Center for Astrophysics Max-Planck-Institut Fur Radioa	A. Minter	Hydroxyl Absorption Zeeman Splitting in Massive Star-Forming Regions [V.L. Fish]	U	S	11 12	25.00
GBT03C-030	Chengalur, J. Kanekar, N.	NCRA (TIFR) Kapteyn Astronomical Institute	A. Minter F. D. Ghigo G. I.	Constraining the variation of fundamental constants using 18cm OH lines [J. Chengalur]	8	S	19 20	14.25
GBT03C-031	Jacoby, B. Anderson, S. Kulkarni, S. R. Kaplan, D.L. Backer, D. C.	Caltech Astronomy Caltech Physics Caltech Caltech University of California, Berkeley	A. Minter	Timing the pulsars in M62, NGC 6544, and NGC 6624 and Search for Ultra-fast pulsars [B. Jacoby]	L8	BS	18	7.00
GBT04A-003	Curran, S. Whiting, M. Webb, J. Murphy, M. T. Pihlstrom, Y Wiklind, T. Francis, P.	University of New South Wales University of New South Wales University of New South Wales University of New South Wales NRAO New Mexico Facilities Space Telescope Science Institute Australian National University	A. Minter R. Maddalena	Highly Redshifted HI and OH Absorption in Red Quasars [S. Curran]	6	SP	6 7 10	15.75

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GBT04A-008	O'Neil, K.	NRAO - GB		New HI Galaxy Standards [K. O'Neil]	L	S	19 22 24 25 [25 26 28 29]	18.25 [24.25]
GBT04A-022	Moore, T. Porter, J. Jones, H.	Liverpool John Moores University Liverpool John Moores University Liverpool John Moores University	A. Minter	Variations in star-formation efficiency in the W3 GMC [T. Moore]	K	S	(27 28 29 30)	(36.00)
GBT04A-025	Liszt, H. Lockman, F. J. Rupen, M. P. Pidopryhora, Y.	NRAO-CV NRAO-GB NRAO - NM Ohio University	F. J. Lockman	Physical Properties of Halo HI Clouds [H. Liszt]	L	SP	1 2 4 14	27.50
GBT04A-041	Margot, J.L. Peale, S. Slade, M.	Caltech (Geo. and Planetary) Dept. of Physics, U. of Calif., Santa Barbara JPL	F. D. Ghigo	The interiors of Mercury and Venus from their spin dynamics [J.L. Margot]	X	O	1	2.25
GBT04A-045	Roberts, M. Hessels, J. W. T. Ransom, S. Kaspi, V. Tam, C.R. Livingstone, M. Backer, D. C. Crawford, F. Kaplan, D.L.	McGill University (Physics Dept) McGill University McGill University McGill University McGill McGill University of California, Berkeley Haverford College Caltech	K. O'Neil	Timing of Three Binary Pulsars Discovered in a Survey of Mid-Latitude EGRET Error Boxes [M. Roberts]	L83	BG	23 24	3.50
Calibratio	Ghigo			System calib	LCSXUKQ	DSP	19 20 21	17.00
Calibratio	Kovalev			System calibration	LCSXKUQ	DSP	26 27	7.00
Maint	NRAO staff			Maintenance			2 7 8 13 14 21 22 [27 28 29 30]	60.75 [35.50]
Not Sched	NRAO staff						(25 26 27 28 29 30)	(8.00)
Setup	NRAO staff			Observation setup	Q68X34ALSC UK	VSPBGO	1 2 3 4 5 6 7 9 10 11 12 13 14 15 17 18 19 20 22 23 24 25 26 28 30 [25 26 27 28 29] (25 26 27 28 29 30)	44.00 [5.00] (14.00)
Tests	Maddalena			Holography	H	DSP	2 3	8.75
Tests	Minter			PCO 1A4	LCSXKUQ	DSPG	4 8	12.50

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Tests	Balser			PCO 2A17	X	DSP	1 2	6.50
Tests	Minter			PCO 2A44	U	DSP	7 8	8.25
Tests	O'Neil			PCO 4A29	L	SG	3	7.50
Tests	Ghigo			PCO 4A46			20	8.75
Tests	Constantikes			PTCS	LQ	SDP	18 19	11.25
Tests	Prestage			PTCS Ptg	X	DSP	20 21	11.75
Tests	Prestage			PTCS tests	LCSXKUQ	DSP	6 8 9 14 15 26 [27 28 29 30]	34.50 [16.00]
Tests	Ghigo			RCO 800 MHz	8	DSP	13	1.50
Tests	Mason			RCO Ka band	B	DSP	23 24	12.00
Tests	tbd			RCO PF2	A	DSP	[30]	[5.50]
Tests	Maddalena			RCO*6 600 MHz	6	DSP	2	3.00
Tests	Mello			Software	L	DSP	23	3.25
Tests	O'Neil			Spigot tests	L	SG	22 23	9.25
Tests	Weadon			Tests Servo			[30]	[2.00]
Total Hrs	Astronomy	425.50	36.00					
	Setup	58.00	5.00					
	Calibration	24.00						
	Maintenance	60.75	35.50					
	Un-assigned	13.00						
	Tests	138.75						

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