

# GBT Observing Schedule for September 2004

Proposal	Investigators	Institute	NRAO Friend	Title	Bands	Back Ends	Days *	Hrs *
BT075	Tarchi, A. Brunthaler, A. Henkel, C. Menten, K. M. Moscadelli, L. Chiaberge, M.	Osservatorio Astronomico di Calgari MPIfR Max-Planck-Institut fur Radioa Max-Planck-Institut Fur Radioa Stazione Astronomica di Caglia IRA - BOlogna		3C403: Is the water maser in an FRII associated with an accretion disk or is due to a jet interaction? [A. Tarchi]	K	V	4 5	4.00
GBT01A-004	Turner, B. Brown, B.R.L. Dennison, B. K. Minter, A.	NRAO-CV NRAO-CV Virginia Polytechnic Institute NRAO - Green Bank		A Search for the Fine Structure of the Hydrogen Atom [B. Turner]	X	S	25 26 29 30	26.00
GBT01A-029	Eales, S. Carilli, C. L. Dunne, L. Iverson, R. J.	Cardiff University NRAO Cardiff University Astronomy Technology Centre		A First Investigation of the Origin of Galaxies with the GBT [S. Eales]	K	S	10 11 12 13 14 19 20 24 25	55.25
GBT02A-003	Darling, J. Giovanelli, R.	Carnegie Institution of Washington (Headquartes) Cornell University		Do Hyperluminous IR Galaxies Produce OH Gigamasers? [J. Darling]	A	S	1 2 3 6	19.00
GBT02A-028	Braatz, J. A. Langston, G. I. McMullin, J. Garwood, R.	NRAO NRAO-GB NRAO-CV NRAO-CV		Exploring the Radio Spectrum of Orion A and W51 [J. A. Braatz]	KQ	S	1	4.50
GBT02A-044	Barvainis, R. E. Antonucci, R. J.	National Science Foundation UCSB		A Search for CO from the Epoch of Reionization [R. E. Barvainis]	U	S	14 15 16	20.00
GBT02A-069	Fisher, R.	NRAO Green Bank Facility		Galaxy Survey of HI emission [R. Fisher]	L	SP	7 8	4.25
GBT02C-002	Carilli, C. L. Stocke, J. T. Menten, K. M. Langston, G. I. Rector, T.A. Dwarakanath, K. S.	NRAO University of Colorado Max-Planck-Institut Fur Radioa NRAO-GB NRAO-AOC NRAO-AOC	G. I. Langston	Redshifted HI 21cm Absorption towards Red Gravitational Lenses (J0134-0931, J1004+1229) [C. L. Carilli]	A	S	8	2.00
GBT03C-009	Darling, J.	Carnegie Institution of Washington (Headquartes)		A Direct Measurement of Fine Structure "Constant" Evolution from OH and HI Absorption Lines [J. Darling]	A	S	4 5 6 7	14.50
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		Timing the pulsars in M62, NGC 6544, and NGC 6624 and Search for Ultra-fast pulsars [B. Jacoby]	L8	BS	25	7.00
GBT04A-003	Curran, S. Whiting, M. Webb, J.	University of New South Wales University of New South Wales University of New South Wales	G. I. Langston	Highly Redshifted HI and OH Absorption in Red Quasars [S. Curran]	A	SP	6 7	15.00

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

Back Ends: 2=S2 recorder, B=BCPM, C=cGBPP, D=Digital Continuum Receiver, O=user supplied, P=Spectral Processor, S=Spectrometer, V=VLBA recorder

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	Murphy, M. T. Pihlstrom, Y Wiklund, T. Francis, P.	University of New South Wales NRAO New Mexico Facilities Space Telescope Science Institute Australian National University						
GBT04A-030	Stairs, I. Thorsett, S. Arzoumanian, Z. Ferdman, R.	University of British Columbia University of California, Santa Cruz NASA/GSFC University of British Columbia		High-Precision Timing of Binary Pulsars at the GBT [I. Stairs]	L	PG	7	2.00
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		Timing of Three Binary Pulsars Discovered in a Survey of Mid-Latitude EGRET Error Boxes [M. Roberts]	L8	BG	16	1.75
GBT04B-011	Rickett, B. J. McLaughlin, M. Coles, W. A. Lyne, A. G. Stairs, I. Camilo, F. Freire, Paulo	UCSD University of Manchester University of California, San NRAL University of British Columbia Columbia Astrophysics Laboratory Arecibo Observatory		Scintillation studies of the J0737-3039 binary system [B. J. Rickett]	SC	G	26	5.00
GBT04B-020	Humphreys, L. Reid, M. J. Greenhill, L. J. Wilner, D. Kondratko, P.T.	Harvard-Smithsonian Center for Astrophysics Center for Astrophysics Harvard-Smithsonian Center for Astrophysics Harvard University		Search for Water Megamasers Through Gravitational Lenses [L. Humphreys]	XC	S	4 5	27.50
GBT04B-021	Troland, T. H. Brogan, C.L. Crutcher, R. M.	University of Kentucky JCMT University of Illinois		The 13 GHz SO Zeeman effect in an outflow region [T. H. Troland]	U	P	12 19	20.00
GBT04B-022	Troland, T. H. Benjamin, R.A. Lockman, F. J.	University of Kentucky University of Wisconsin-Whitewater NRAO-GB		The magnetic field in a compact high velocity cloud [T. H. Troland]	L	P	12 13 17 18	35.00
GBT04B-026	Kramer, M. Stairs, I. Camilo, F. McLaughlin, M. Lorimer, D.	NRAL University of British Columbia Columbia Astrophysics Laboratory University of Manchester		Timing the First Double Pulsar System [M. Kramer]	L8	OG	18	6.75

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	Lyne, A. G. Manchester, D.R. N. Possenti, A. D'Amico, N. Burgay, M. Freire, Paulo Joshi, B. Ferdman, R.	University of Manchester NRAL Australia Telescope Osservatorio di Cagliari Osservatorio di Cagliari Osservatorio di Bologna Arecibo Observatory National Centre for Radio Astrophysics (India) University of British Columbia						
GBT04B-029	Stairs, I. Camilo, F. Kramer, M. Faulkner, A. McLaughlin, M. Lorimer, D. Lyne, A. G. Hobbs, G. Manchester, D.R. N. Possenti, A. D'Amico, N. Burgay, M. Ferdman, R. Ramachandran, R. Backer, D. C. Demorest, P. Nice, D.	University of British Columbia Columbia Astrophysics Laboratory NRAL Nuffield Radio Astronomy Laboratories University of Manchester University of Manchester NRAL Australia Telescope National Facility (ATNF) Australia Telescope Osservatorio di Cagliari Osservatorio di Cagliari Osservatorio di Bologna University of British Columbia UC Berkeley (Astronomy) University of California, Berkeley UC Berkeley (Physics) Princeton University		Timing New Binary and Millisecond Pulsars from the Parkes Multibeam Survey [I. Stairs]	L	BCOG	8 26 27	10.00
GBT04B-036	Demorest, P. Backer, D. C. Ferdman, R. Stairs, I. Nice, D. Ramachandran, R.	UC Berkeley (Physics) University of California, Berkeley University of British Columbia University of British Columbia Princeton University UC Berkeley (Astronomy)		Precision Timing of Binary and Millisecond Pulsars [P. Demorest]	L8	COG	18 19 26 27 28	22.75
GBT04B-037	Ransom, S. Kaspi, V. Roberts, M.	McGill University McGill University McGill University (Physics Dept)		A Pilot 350MHz Survey for Fast Pulsars [S. Ransom]	3	GB	9 10 11 12	23.50
GBT04B-039	Heyer, M.	University of Massachusetts		Test Observations of HI absorption in the Galaxy [M. Heyer]	L	P	7	1.50
GBT04C-008	Pidopryhora, Y. Shields, J. Lockman, F. J.	Ohio University Ohio University NRAO-GB		Mapping the Galactic Halo HI: Evidence of Outflow from the Galactic Plane? [Y. Pidopryhora]	L	P	26 28	5.00

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GBT04C-012	Donovan, J. Camilo, F.	Columbia University Columbia Astrophysics Laboratory		Deep Searches for Young Pulsars in ``Shell'' Supernova Remnants [J. Donovan]	8	BG	16 17 21 22	23.25
GBT04C-018	Bolatto, A. Darling, J.	University of California at Berkeley Carnegie Institution of Washington (Headquartes)		A Search for Cosmological HI Absorption Systems Toward Radio Selected Flat-Spectrum Sources [A. Bolatto]	A	S	8 9	9.25
Calibratio	Kovalev			System calibration	XLCSU	DSP	25	7.50
Maint	NRAO staff			Maintenance			1 2 7 8 9 10 13 14 15 16 20 21 22 23 27 28 29 30	210.25
Setup	NRAO staff			Observation setup	KXAQUL83SC	VSDPBGOC	1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 21 23 24 25 26 27 28 29 30	55.50
Tests	Fleming			M&C Insttall	L	DSP	30	2.00
Tests	Fleming			M&C Integ	L	DSP	20 21 27 28	13.00
Tests	Braatz			M&C Reg	L	DSP	22 23	12.00
Tests	NRAO staff			M&C tests			16	2.00
Tests	NRAO staff			PTCS	XCKULSQ	DSP	1 2 3 23 24	45.00
Tests	NRAO staff			RCO*3 300MHz	3	DSP	9	3.00
Tests	NRAO staff			RCO*8 800MHz			14	2.00
Tests	NRAO staff			RCO*A PF2	A	DSP	1	3.00
Total Hrs	Astronomy Setup Calibration Maintenance Un-assigned Tests	364.75 55.50 7.50 210.25  82.00						

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