

# GBT Observing Schedule for May 2009

| Proposal   | Investigators   | Institute  | NRAO Friend   | Title   | Bands | Back Ends | Days *                                | Hrs *           |
|------------|---|--|---------------|---|-------|-----------|---------------------------------------|-----------------|
| BB233      | Bietenholz, M. F.<br>Bartel, N.   | York University<br>York University   |               | Does the Ursa Minor Dwarf Spheroidal Host an Intermediate-Mass Black Hole? [M. F. Bietenholz]                                 | C     | 5         | 17                                    | 8.50            |
| BB240      | Bower, G. C.<br>Bolatto, A.<br>Ford, E.<br>Kalas, P.  | UC Berkeley<br>University of California at Berkeley<br>University of Amsterdam<br>Calif.-Berkeley  | Frank Ghigo   | RIPL: Radio Interferometric PLanet Search [G. C. Bower]   | X     | 5         | 18<br>(26 28)                         | 8.50<br>(17.00) |
| BM296      | Miller-Jones, J.<br>Migliari, S.<br>Fender, R.P.<br>Jonker, P.G.<br>Tomsick, J.A.   | Oxford<br>Amsterdam<br>U Southampton<br>CfA<br>Calif.-San Diego  |               | Resolving the compact jet in a neutron star X-ray binary system [J. Miller-Jones]   | X     | 5         | 31                                    | 8.50            |
| GBT04A-003 | Curran, S.<br>Whiting, M.<br>Webb, J.<br>Murphy, M. T.<br>Pihlstrom, Y.<br>Wiklund, T.<br>Francis, P.                       | University of New South Wales<br>Australia Telescope National Facility<br>University of New South Wales<br>Cambridge, University of UNM<br>Space Telescope Science Institute<br>Australian National University   | Carl Bignell  | Highly Redshifted HI and OH Absorption in Red Quasars [S. Curran]   | A     | SP        | 30                                    | 2.75            |
| GBT05B-011 | Minter, A.  | NRAO - Green Bank  | Toney Minter  | Using Pulsar HI Absorption to Determine the Distance to the Local Spiral Arm in the Second Quadrant of the Galaxy [A. Minter] | L     | P         | 13                                    | 5.00            |
| GBT06A-016 | Morris, M. R.<br>Wiesenfeld, L.<br>Requena-Torres, M.A.<br>Ceccarelli, C.<br>Valiron, P.<br>Martin-Pintado, J.<br>Faure, A. | UCLA<br>Universite Joseph Fourier, Grenoble<br>Consejo Superior de Investigaciones (CSIC)<br>Observatoire de Grenoble<br>Laboratoire d'Astrophysique, Univ. J. Fourier, Grenoble<br>Consejo Superior de Investigaciones (CSIC)<br>Observatoire de Grenoble | Ron Maddalena | Observations of Cyanopolyynes in the Galactic Center at 7 and 11 mm [M. R. Morris]  | QB    | S         | 12 13<br>(16 18 19 20 21<br>22 27 29) | 8.00<br>(43.50) |
| GBT07A-051 | Hollis, J. M.<br>Remijan, A.<br>Jewell, P. R.<br>Lovas, F. J.   | NASA/GSFC<br>National Radio Astronomy Observatory<br>NRAO-CV<br>Nat'l Instit. of Standards and Technology  | Ron Maddalena | A GBT Legacy Survey of Prebiotic Molecules Toward SgrB2(N-LMH) and TMC-1 [A. Remijan]   | KBQ   | S         | (26 28)                               | (8.00)          |
| GBT07A-086 | Bregman, J. N.<br>Irwin, M.J.   | University of Michigan<br>Institute of Astronomy   | Jim Braatz    | The Detection of the Missing Baryons with the NVII Line [J. N. Bregman]   | Q     | S         | 11 12                                 | 3.00            |
| GBT07A-087 | Demorest, P.<br>Jacoby, B.A.<br>Ferdman, R.   | UC Berkeley (Physics)<br>Naval Research Lab<br>University of British Columbia  | Scott Ransom  | Detecting nHz Gravitational Radiation using a Pulsar Timing Array [P. Demorest]   | 8L    | YR        | [19 20 21 22 26<br>27 28 29]          | [30.00]         |

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

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|            | Backer, D. C.<br>Stairs, I.<br>Nice, D.<br>Lommen, A.<br>Ransom, S.<br>Bailes, M.<br>Cognard, I | University of California, Berkeley<br>University of British Columbia<br>Bryn Mawr College<br>Franklin and Marshall College<br>NRAO - CV<br>Swinburne University of<br>Technology<br>CNRS-Orleans |               |   |       |           |                  |                 |
| GBT07C-013 | Kanekar, N.<br>Chengalur, J.  | NRAO-AOC<br>NCRA (TIFR)  | Frank Ghigo   | Conjugate OH lines in the z ~ 0.886 gravitational lens towards 1830-21 [N. Kanekar]           | 8     | S         | 10               | 6.00            |
| GBT07C-032 | Bourke, T.<br>Caselli, P.<br>Friesen, R.<br>Di Francesco, J.<br>Myers, P. C.                    | Center for Astrophysics<br>Harvard-Smithsonian Center for<br>Astrophysics<br>Victoria, University of<br>National Research Council Canada<br>Center for Astrophysics                              | Frank Ghigo   | What is the gas temperature in the nearest cluster-forming region? [T. Bourke]                | K     | S         | [15 16 17 19 21] | [14.08]         |
| GBT07C-040 | Birkinshaw, M.<br>Lancaster, K.<br>Kus, A. J.<br>Wilkinson, P. N.                               | University of Bristol<br><br>Torun Center for Astronomy<br>University of Manchester  | Brian Mason   | Investigating the radio--source environment of clusters in the OCRA SZ samples [K. Lancaster] | B     | K         | (16 18)          | (4.00)          |
| GBT07C-070 | Pisano, D.J.<br>Wagg, J.<br>Koo, D.   | NRAO-GB<br>NRAO - Soc<br>Space Telescope Science Instit  | D.J. Pisano   | Searching for CO emission from z~1 Luminous Compact Blue Galaxies [D.J. Pisano]               | Q     | S         | 7 8<br>(24 25)   | 5.75<br>(10.00) |
| GBT08A-048 | Araya, E.<br>Hofner, P.<br>Hoffman, I.M.<br>Goss, W. M.<br>Linz, H.<br>Kurtz, S.                | New Mexico Tech<br>New Mexico Tech<br>St. Paul's School<br>NRAO-SOC<br>TLS Tautenburg/MPIA<br>UNAM   | Jim Braatz    | Correlated Variability of Astrophysical Masers I: monitoring of NGC7538 IRS1 [E. Araya]       | CUK   | S         | (16 18)          | (4.00)          |
| GBT08A-073 | Kanekar, N.<br>Marthi, V.   | NRAO-AOC   | Jules Harnett | A deep search for associated HI 21cm absorption in red quasars [N. Kanekar]                   | A     | S         | 30 31            | 2.50            |
| GBT08A-092 | Greaves, J.<br>Hales, A.<br>Matthews, B.  | Herzberg Institute   | Brian Mason   | Super-sized dust and exo-Earth formation [J. Greaves]   | B     | K         | (17 24)          | (4.00)          |
| GBT08B-005 | Campbell, B.<br>Campbell, D. B.<br>Carter, L.<br>Ghent, R.<br>Nolan, M                          | Smithsonian Institute<br>Cornell University<br>Smithsonian Institution<br>Smithsonian Institution<br>Arecibo Observatory   | Frank Ghigo   | High-Resolution 12.6-cm Radar Mapping of the Nearside of the Moon [B. Campbell]               | S     | X         | 1 2 3 20         | 11.25           |
| GBT08B-010 | Ruffle, P.<br>Kobayashi, N.<br>Millar, T.<br>Saito, M.  | Queen's University Belfast<br>Center for Astrophysics  | Paul Ruffle   | Molecular Line Survey of Edge Cloud 2 Southern Core [P. Ruffle]                               | C     | S         | (19 21)          | (6.50)          |

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|            | Yasui, C.  |   |               |   |       |           |                                    |                  |
| GBT08B-014 | Kanekar, N.<br>Chengalur, J.<br>Ghosh, T.  | NRAO-AOC<br>NCRA (TIFR)<br>Arecibo Observatory  | Ron Maddalena | Probing changes in fundamental constants with conjugate satellite OH lines [N. Kanekar] | L     | S         | 15                                 | 4.00             |
| GBT08B-021 | Stairs, I.<br>Thorsett, S.<br>Arzoumanian, Z.  | University of British Columbia<br>University of California, Santa Cruz<br>NASA/GSFC   | Scott Ransom  | The Pulsar Triple System in M4 [I. Stairs]  | L     | B         | 2                                  | 1.25             |
| GBT08B-023 | Ferdman, R.<br>Stairs, I.<br>Kramer, M.<br>McLaughlin, M.<br>Demorest, P.<br>Nice, D.<br>Burgay, M.<br>Camilo, F.<br>D'Amico, N.<br>Hobbs, G.<br>Lorimer, D.<br>Lyne, A. G.<br>Manchester, D.R.<br>N.<br>Possenti, A.<br>Faulkner, A.<br>Backer, D. C. | University of British Columbia<br>University of British Columbia<br>Jodrell Bank<br>WVU<br>UC Berkeley (Physics)<br>Bryn Mawr College<br>Istituto Nazionale di Astrofisica<br>Columbia Astrophysics Laboratory<br>Osservatorio di Cagliari<br>Australia Telescope National Facility (ATNF)<br>West Virginia University<br>Manchester, University of<br>Australia Telescope<br>Istituto Nazionale di Astrofisica<br>University of Manchester<br>University of California, Berkeley | Scott Ransom  | Timing Binary Pulsars from the Parkes Multibeam Survey [R. Ferdman]                     | L     | B         | 5                                  | 1.50             |
| GBT08B-025 | Kramer, M.<br>Stairs, I.<br>McLaughlin, M.<br>Ferdman, R.<br>Camilo, F.<br>Lyne, A. G.<br>Manchester, D.R.<br>N.<br>Possenti, A.<br>D'Amico, N.<br>Burgay, M.<br>Freire, P.  | Jodrell Bank<br>University of British Columbia<br>WVU<br>University of British Columbia<br>Columbia Astrophysics Laboratory<br>Manchester, University of<br>Australia Telescope<br>Istituto Nazionale di Astrofisica<br>Osservatorio di Cagliari<br>Istituto Nazionale di Astrofisica<br>Arecibo Observatory  | Scott Ransom  | Timing and General Relativity in the Double Pulsar System [M. Kramer]                   | 8     | YBG       | 11 15 16<br>[17 20 22 23 24<br>25] | 23.00<br>[38.50] |
| GBT08B-035 | Darling, J.<br>Willett, K.   | Colorado at Boulder, University of<br>University of Colorado at Boulder   | Frank Ghigo   | A High Redshift OH Megamaser Survey [J. Darling]  | 8     | S         | 2 4 7                              | 16.25            |
| GBT08C-005 | McIntosh, G.<br>Minter, A.   | University of Minnesota<br>NRAO - Green Bank  | Toney Minter  | SiO Maser Observations of VY CMa [G. McIntosh]  | Q     | S         | (26 28)                            | (12.00)          |
| GBT08C-009 | Smail, I.<br>Genzel, R.<br>Ivison, R. J.<br>Hainline, L.   | University of Durham<br>University of California, Berkeley<br>Edinburgh, University of<br>Caltech (Physics, Maths and   | Frank Ghigo   | A Combined GBT/PdBI CO Survey of Submm Galaxies [I. Smail]                              | B     | Z         | (30 31)                            | (8.00)           |

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|            | Blain, A. W.<br>Tacconi, L. J.<br>Bertoldi, F.<br>Greve, T.R.<br>Neri, R.<br>Chapman, S.C.<br>Harris, A.<br>Baker, A.C.<br>Cox, P.<br>Omont, A.           | Astronomy)<br>Caltech Astronomy<br>MPE<br>U Bonn<br>Caltech (Physics, Maths and<br>Astronomy)<br>IRAM<br>U of Cambridge<br>University of Maryland<br>University of Maryland<br>IAS/Institut. d'Astrophys. Spatiale<br>Inst. d'Astrophysique de Paris |               |   |       |           |                 |                |
| GBT08C-010 | Courtois, H.<br>Tully, R.B.<br>Fisher, R.<br>Bonhomme, N.   | Institute for Astronomy<br>Institute for Astronomy<br>NRAO Green Bank Facility   | Toney Minter  | Bulk motions of filaments in the Local Universe - Large<br>Proposal - 08C [H. Courtois] | L     | S         | 1 3 4 5         | 24.25          |
| GBT08C-014 | Camilo, F.<br>Ransom, S.<br>Halpern, J. P.<br>Reynolds, J. E.   | Columbia Astrophysics Laboratory<br>NRAO - CV<br>Columbia University<br>Australia Telescope National F   | Scott Ransom  | Studying the magnetar XTE J1810-197 [F. Camilo]   | SXC   | G         | 5<br>[24 25]    | 0.75<br>[6.00] |
| GBT08C-023 | Camilo, F.<br>Ransom, S.<br>Roberts, M.<br>McLaughlin, M.<br>Arzoumanian, Z.<br>Freire, P.<br>Romani, R. W.<br>Halpern, J. P.<br>Ray, P.S.                | Columbia Astrophysics Laboratory<br>NRAO - CV<br>Eureka Scientific, Inc.<br>WVU<br>NASA/GSFC<br>Arecibo Observatory<br>Stanford University<br>Columbia University<br>Naval Research Lab  | Scott Ransom  | GLAST timing at GBT: six key radio-faint pulsars [F.<br>Camilo]                         | L8S   | GB        | 1 30<br>[16 18] | 7.50<br>[9.50] |
| GBT08C-035 | Braatz, J. A.<br>Condon, J. J.<br>Greenhill, L. J.<br>Henkel, C.<br>Lo, F.K. Y.<br>Reid, M. J.<br>Kuo, C-Y.<br>Zaw, I.<br>Tilak, A.<br>Hao, L.<br>Lah, P. | NRAO - CV<br>NRAO-CV<br>CfA<br>Max-Planck-Institut fur Radioa<br>NRAO-CV<br>Center for Astrophysics<br>ASIAA<br>Johns Hopkins<br>Cornell Dept. of Astronomy  | Jim Braatz    | The Megamaser Cosmology Project: Year 2 [J. A. Braatz]                                  | K     | S         | 12 13           | 7.00           |
| GBT08C-049 | Lynch, R.<br>Ransom, S.<br>Freire, P.<br>Stairs, I.   | Virginia, University of<br>NRAO - CV<br>Arecibo Observatory<br>University of British Columbia  | Scott Ransom  | Timing of Newly Discovered MSPs in the Globular Cluster<br>NGC6517 [R. Lynch]           | S     | U         | 23              | 6.25           |
| GBT08C-070 | Zonak, S.   | University of Maryland   | Ron Maddalena | Deep Zpectrometer integration toward the Cloverleaf                                     | B     | Z         | (17 24)         | (6.00)         |

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|            | Harris, A.<br>Baker, A.C.<br>Sharon, C.<br>VandenBout, P. A.<br>Maddalena, R.  | University of Maryland<br>University of Maryland<br>NRAO-CV<br>NRAO-Green Bank  |              | galaxy [A. Harris]  |       |           |   |                  |
| GBT08C-073 | Harris, A.<br>Baker, A.C.<br>Zonak, S.<br>Sharon, C.   | University of Maryland<br>University of Maryland<br>University of Maryland  | Toney Minter | A CO(1-0) Survey of Dusty Galaxies at High Redshift [A. Harris]   | B     | Z         | 10<br>(19 21)                                 | 3.25<br>(7.00)   |
| GBT08C-076 | Ransom, S.<br>Freire, P.<br>Stairs, I.<br>Hessels, J. W. T.<br>Lynch, R.   | NRAO - CV<br>Arecibo Observatory<br>University of British Columbia<br>ASTRON<br>Virginia, University of                   | Scott Ransom | Long Term Timing of 55 Recycled Pulsars in Bulge Globular Clusters [S. Ransom]                                | S     | G         | 6 9   | 18.17            |
| GBT09A-002 | Anderson, L.<br>Bania, T. M.<br>Balser, D.S.<br>Rood, R. T.  | Boston University<br>NRAO - Green Bank<br>University of Virginia  | Dana Balser  | Discovering Milky Way HII Regions [L. Anderson]   | X     | DS        | 7   | 2.25             |
| GBT09A-007 | Lockman, F. J.<br>Burton, W. B.  | NRAO-GB   | Jay Lockman  | Straightening Out the Galactic Warp [F. J. Lockman]   | L     | S         | 1 2 3 4 5 7 9 14<br>[19 21 26 27 28<br>29]    | 32.75<br>[28.00] |
| GBT09A-012 | Carilli, C. L.<br>Daddi, E.<br>Wagg, J.<br>Aravena, M.<br>Walter, F.<br>Riechers, D.<br>Dannerbauer, H.<br>Dickinson, M.<br>Elbaz, D.<br>Stern, D.<br>Morrison, G. | NRAO - Socorro<br>NRAO - Soc<br>MPIfA<br>Max-Planck-Institute for<br>Astronomy, Heidelberg<br>NOAO<br>JPL<br>IfA - Hawaii | Toney Minter | Study of the ISM conditions in normal star forming galaxies at $z \sim 1.5$ [C. L. Carilli]                   | Q     | S         | (15 16 17 18)                                 | (11.50)          |
| GBT09A-017 | Lockman, F. J.<br>Chynoweth, K.<br>Langston, G. I.   | NRAO-GB<br>NRAO-GB  | Jay Lockman  | GBT HI Observations of "Wright's Cloud" [F. J. Lockman]   | L     | S         | 2 3 4 5 14 30<br>[16 18 19 20 21<br>23 24 25] | 44.50<br>[51.25] |
| GBT09A-021 | Cernicharo, J.<br>Vincent, L.<br>Feautrier, N.<br>Valiron, P.<br>Faure, A.<br>Spielfiedel, A.<br>Senent, M.<br>Daniel, F.  | CSICIEMDpto. Fisica Molecular<br>Laboratoire d'Astrophysique, Univ.<br>J. Fourier, Grenoble<br>Observatoire de Grenoble   | Jim Braatz   | SO <sub>2</sub> : A molecule with maser emission and line absorption line in cold dark clouds [J. Cernicharo] | B     | S         | (27 29)                                       | (10.00)          |

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| GBT09A-022 | Bremer, M.<br>Stanway, E.<br>Carilli, C. L.<br>Birkinshaw, M.<br>Douglas, L.<br>Davies, L.<br>Lehnert, M. D.  | University of Bristol<br>University of Wisconsin--Madison<br>NRAO - Socorro<br>University of Bristol<br><br>Max Planck Inst fuer Physik  | Toney Minter  | Probing Large Masses of Cool Gas at z>5 [M. Bremer]  | B     | S         | (19 20 21 22)       | (25.00) |
| GBT09A-031 | Jaffe, W.<br>Oonk, R.<br>Hatch, Nina  | Leiden Observatory   | Jim Braatz    | Tracing Cool Molecular Gas in Cooling Flow Clusters with Ammonia Emission. [R. Oonk]           | K     | S         | (23)                | (7.00)  |
| GBT09A-037 | Martín, S.<br>Martin-Pintado, J.<br>Harris, A.<br>Baker, A.C.<br>Requena-Torres, M.A.<br>Rodríguez-Franco, A.<br>Armijos, J.                          | Consejo Superior de Investigaciones (CSIC)<br>University of Maryland<br>University of Maryland<br>Consejo Superior de Investigaciones (CSIC)<br>DAMIR-IEM-CSIC   | Karen O'Neil  | The APM 08279+5255 redshifted 2mm molecular line survey [S. Martin]                            | B     | Z         | (19 20 21)          | (9.00)  |
| GBT09A-040 | Swinbank, M.<br>Smail, I.<br>Coppin, K.<br>Edge, A.<br>Ellis, R.<br>Baker, A.C.<br>Harris, A.<br>Stark, D.<br>Jones, T.<br>Kneib, J.P.<br>Ebeling, H. | Durham University<br>University of Durham<br>Durham, University of<br>University of Durham<br>Caltech<br>University of Maryland<br>University of Maryland<br>Caltech<br><br>Observatoire de Toulouse<br>University of Hawaii | Karen O'Neil  | Probing the Gas Properties of Star-Forming Galaxies at High-z via Strong Lensing [M. Swinbank] | B     | Z         | (23 25 26 27 28 29) | (47.00) |
| GBT09A-043 | Lancaster, K.<br>Birkinshaw, M.<br>Wilkinson, P. N.<br>Kus, A. J.<br>Alareedh, A.   | University of Bristol<br>University of Manchester<br>Torun Center for Astronomy  | Brian Mason   | Investigating the radio environments of clusters in the extended OCRA SZ sample [K. Lancaster] | B     | K         | 13                  | 3.75    |
| GBT09A-044 | Shirley, Y.L.<br>Schenck, D.<br>Mangum, J. G.<br>Mason, B.S.<br>Cotton, B.W. D.<br>Dicker, S.<br>Devlin, M.J.<br>Kornigut, P.                         | University of Arizona<br><br>NRAO Charlottesville<br>NRAO Green Bank Facility<br>NRAO-CV<br>University of Pennsylvania<br>Rutgers Univ. and Univ. of Pennsylvania  | Brian Mason   | Modeling the Dust Emission from Class 0 Protostars at 3mm [Y.L. Shirley]                       | M     |           | 8                   | 4.75    |
| GBT09A-046 | Chynoweth, K.<br>Langston, G. I.  | NRAO-GB  | Glen Langston | A Search for Faint Extended HI in Nearby Galaxy Groups - copy [K. Chynoweth]                   | L     | S         | 1 6 8 11            | 13.25   |

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|            | Holley-Bockelmann<br>, K.  |   |               |   |        |           |                       |                          |
| GBT09A-049 | Rosen, R.<br>Demorest, P.<br>Clemens, C.   | North Carolina, University of<br>UC Berkeley (Physics)<br>North Carolina, University of   | Scott Ransom  | Observational Tests for Non-radial Oscillations in Radio<br>Pulsars [R. Rosen]    | 8      | U         | 9 10                  | 3.75                     |
| GBT09A-058 | Rosen, R.<br>McLaughlin, M.<br>Lorimer, D.<br>Heatherly, S.  | North Carolina, University of<br>WVU<br>West Virginia University<br>NRAO-GB   | Scott Ransom  | Confirmation Observations of New Pulsars Discovered by<br>the PSC [R. Rosen]      | 8      | G         | 4                     | 1.00                     |
| GBT09A-062 | Camilo, F.<br>Halpern, J. P.<br>Ransom, S.<br>Gotthelf, E.V.   | Columbia Astrophysics Laboratory<br>Columbia University<br>NRAO - CV<br>University of Columbia  | Scott Ransom  | New pulsar identifications of TeV gamma-ray sources [F.<br>Camilo]                | S      | G         | 30 31                 | 10.50                    |
| GBT09A-073 | Boyles, J.<br>Lorimer, D.<br>McLaughlin, M.<br>Ransom, S.<br>Kondratiev, V.<br>Stairs, I.<br>Kaspi, V.<br>Archibald, A.<br>McPhee, C.<br>Hessels, J. W. T.<br>Lynch, R.<br>Cordes, J. M.<br>Roberts, M.<br>Kasian, L.<br>van Leeuwen, J.<br>Deneva, J.<br>Champion, D. | West Virginia University<br>West Virginia University<br>WVU<br>NRAO - CV<br>West Virginia University<br>University of British Columbia<br>McGill University<br><br>ASTRON<br>Virginia, University of<br>NAIC and Cornell University<br>Eureka Scientific, Inc.<br>University of British Columbia<br>University of British Columbia<br>Cornell University<br>McGill University | Scott Ransom  | Timing new pulsars from the GBT 350-MHz drift-scan<br>survey [J. Boyles]          | L8S346 | GU        | 13<br>[24]<br>(17 24) | 0.75<br>[2.00]<br>(3.00) |
| GBT09A-079 | Grossan, B.<br>Heiles, C. E.<br>Goldston, J.   | University of California  | Jules Harnett | The Far-IR Background & the HI/Dust Foreground [B.<br>Grossan]                    | L      | P         | [19 21]               | [6.00]                   |
| GBT09A-080 | Nordhaus, M.<br>Evans II, N.J.<br>Rosolowsky, E.<br>Cyganowski, C.<br>Bally, J.<br>Aguirre, J.<br>Drosback, M.<br>Glenn, J.<br>Williams, J. P.<br>Bradley, E.T.<br>Ginsburg, A.  | University of Texas at Austin<br>Harvard-Smithsonian Center for<br>Astrophysics<br>Wisconsin at Madison, University<br>of<br>University of Colorado<br><br><br><br><br><br>Institute for Astronomy  | Jim Braatz    | NH3 in Dense Cloud Cores Selected from the 1.1 mm<br>Continuum BGPS [M. Nordhaus] | K      | S         | (27 29)               | (4.00)                   |

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

# GBT Observing Schedule for May 2009

| Proposal   | Investigators   | Institute   | NRAO Friend  | Title  | Bands | Back Ends | Days *  | Hrs *            |
|------------|---|---|--------------|--|-------|-----------|---|------------------|
| GBT09A-092 | Heatherly, S.<br>Rosen, R.  | NRAO-GB<br>North Carolina, University of  | Rachel Rosen | Maintenance Observing with the GBT [S. Heatherly]  | L8    | G         | 8 15  | 14.00            |
| GBT09A-098 | Arzoumanian, Z.<br>Ransom, S.   | NASA/GSFC<br>NRAO - CV  |              | Confirming a candidate 24 ms pulsar in SNR G76.9+1.0 [Z. Arzoumanian]                              | S8    | U         | 6 7   | 5.25             |
| GBT09B-016 | Pisano, D.J.  | NRAO-GB   | D.J. Pisano  | Searching for low column density HI around NGC 2997 and NGC 6946 [D.J. Pisano]                     | L     | S         | 6 9   | 12.50            |
| GBT09B-032 | Archibald, A.<br>Kaspi, V.<br>Stairs, I.<br>Ransom, S.<br>Roberts, M.<br>Lorimer, D.                          | McGill University<br>University of British Columbia<br>NRAO - CV<br>Eureka Scientific, Inc.<br>West Virginia University | Scott Ransom | Ionized Material in the LMXB-MSP Transition System FIRST J102347.67+003841 [A. Archibald]          | L     | GUY       | 10 14 15  | 22.00            |
| GLST011217 | Tomsick, J.A.<br>Corbel, S.<br>Migliari, S.<br>Pottschmidt, K.<br>Wilms, J.<br>Rodriguez, J.<br>Pooley, G. G. | Calif.-San Diego<br>CEA-Saclay<br>Amsterdam<br><br>Switzerland<br>Mullard Radio Astronomy Observ                        | Jim Braatz   | Probing the High Energy Emission of Microquasars with Multi-wavelength observations [J.A. Tomsick] | X     | SD        | 5 12<br>(20 22 26 28)                             | 4.25<br>(8.00)   |
| Maint      | NRAO staff  |   |              | Maintenance  | CA    | A         | 1 5 7 12 13 15<br>22<br>[26 27 28 29]             | 39.25<br>[34.00] |
| Not Sched  | NRAO staff  |   |              |  |       |           | (16 17 18 19 20<br>21 22 23 24 25<br>27 29 30 31) | (45.75)          |
| Tests      | Maddalena   |   |              | Gain Cal   | KQB   | DSP       | (24 25)   | (10.00)          |
| Tests      | Hunter  |   |              | HOLO   | H     |           | 10 11 12 13 14                                    | 21.25            |
| Tests      | Hunter  |   |              | Holography   | H     |           | 3   | 4.00             |
| Tests      | NRAO staff  |   |              | RCO C band   | C     | DSP       | 12  | 1.50             |
| Tests      | NRAO staff  |   |              | RCO Ka   |       | B         | 6   | 1.75             |
| Tests      | NRAO staff  |   |              | RCO*A PF2  | A     | DSP       | [27 29]   | [3.00]           |
| Tests      | NRAO staff  |   |              | Un-assigned Tests  | B     | Z         | 2   | 1.00             |
| Tests      | CCB-Ghigo   |   |              | Tests Ka   |       |           | 8   | 1.00             |
| Tests      | Hunter Ghigo  |   |              | Tests PTCS   |       |           | 1   | 1.50             |

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# GBT Observing Schedule for May 2009

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|-----------|---------------|-----------|-------------|--------------------|-------|-----------|--------|-------|
| Tests     | NRAO staff    |           |             | Tests zpectrometer | B     | Z         | 5 8    | 4.25  |
| Total Hrs | Astronomy     | 612.67    | 185.33      |                    |       |           |        |       |
|           | Maintenance   | 39.25     | 34.00       |                    |       |           |        |       |
|           | Un-assigned   | 45.75     |             |                    |       |           |        |       |
|           | Tests         | 46.25     | 3.00        |                    |       |           |        |       |

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