

GBT Observing Schedule for February 2009

| Proposal | Investigators | Institute | NRAO Friend | Title | Bands | Back Ends | Days * | Hrs * |
|------------|---|--|---------------|--|-------|-----------|--------|-------|
| BB240 | Bower, G. C. Bolatto, A. Ford, E. Kalas, P. | UC Berkeley University of California at Berkeley University of Amsterdam Calif.-Berkeley | | RIPL: Radio Interferometric PLANet Search [G. C. Bower] | X | 5 | 23 24 | 8.25 |
| BB242 | Braatz, J. A. Greenhill, L. J. Condon, J. J. Reid, M. J. Henkel, C. Lo, F.K. Y. | NRAO - CV CfA NRAO-CV Center for Astrophysics Max-Planck-Institut fur Radioa NRAO-CV | Jim Braatz | The Megamaser Cosmology Project [J. A. Braatz] | K | V | 14 15 | 12.50 |
| BB261 | Braatz, J. A. Condon, J. J. Greenhill, L. J. Henkel, C. Lo, F.K. Y. Reid, M. J. Kuo, C-Y. Zaw, I. Tilak, A. Hao, L. Lah, P. | NRAO - CV NRAO-CV CfA Max-Planck-Institut fur Radioa NRAO-CV Center for Astrophysics ASIAA Johns Hopkins Cornell Dept. of Astronomy | | The Megamaser Cosmology Project: Year 2 [J. A. Braatz] | K | 5 | 17 18 | 10.50 |
| BM284 | Momjian, E. Riechers, D. Carilli, C. L. | Arecibo Observatory (Puerto Rico) Max-Planck-Institute for Astronomy, Heidelberg NRAO - Socorro | | Testing the AGN vs. AGN+starburst hypothesis in two z~6 QSOs [E. Momjian] | L | 5 | 21 22 | 11.00 |
| BM290 | Miller-Jones, J. Rupen, M. P. Mioduszewski, A. Dhawan, V. Gallo, E. Jonker, P.G. Briskin, W.F. | Oxford NRAO - SOC NRAO - SOC NRAO-SOC UC Santa Barbara CfA NRAO - SOC | | A direct geometric distance to a quiescent black hole X-ray binary [J. Miller-Jones] | X | 5 | 15 | 5.50 |
| GBT04A-003 | Curran, S. Whiting, M. Webb, J. Murphy, M. T. Pihlstrom, Y. Wiklund, T. Francis, P. | University of New South Wales Australia Telescope National Facility University of New South Wales Cambridge, University of UNM Space Telescope Science Institute Australian National University | Carl Bignell | Highly Redshifted HI and OH Absorption in Red Quasars [S. Curran] | 6 | SP | 15 | 3.00 |
| GBT07A-051 | Hollis, J. M. Remijan, A. Jewell, P. R. Lovas, F. J. | NASA/GSFC National Radio Astronomy Observatory NRAO-CV Nat'l Instit. of Standards and | Ron Maddalena | A GBT Legacy Survey of Prebiotic Molecules Toward SgrB2(N-LMH) and TMC-1 [J. M. Hollis A. Remijan] | BK | S | 9 27 | 8.50 |

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

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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| | | Technology | | | | | | |
| GBT07A-066 | Braatz, J. A. Condon, J. J. Greenhill, L. J. Henkel, C. Reid, M. J. Lo, F.K. Y. | NRAO - CV NRAO-CV CfA Max-Planck-Institut fur Radioa Center for Astrophysics NRAO-CV | Jim Braatz | The Megamaser Cosmology Project [J. A. Braatz] | K | S | 20 | 3.00 |
| GBT07A-087 | Demorest, P. Jacoby, B.A. Ferdman, R. Backer, D. C. Stairs, I. Nice, D. Lommen, A. Ransom, S. Bailes, M. Cognard, I | UC Berkeley (Physics) Naval Research Lab University of British Columbia University of California, Berkeley University of British Columbia Bryn Mawr College Franklin and Marshall College NRAO - CV Swinburne University of Technology CNRS-Orleans | Scott Ransom | Detecting nHz Gravitational Radiation using a Pulsar Timing Array [P. Demorest] | L8 | RY | 18 20 23 | 15.00 |
| GBT07C-051 | Balser, D.S. Goss, W. M. | NRAO - Green Bank NRAO-SOC | Dana Balser | Pilot Project to Survey Galaxies for Young Nuclear Star Clusters [D.S. Balser] | Q | S | 2 | 5.00 |
| GBT07C-070 | Pisano, D.J. Wagg, J. Koo, D. | NRAO-GB NRAO - Soc Space Telescope Science Instit | D.J. Pisano | Searching for CO emission from z~1 Luminous Compact Blue Galaxies [D.J. Pisano] | Q | S | 1 2 13 14 | 12.25 |
| GBT07C-077 | Mason, B.S. Sievers, J. Pfrommer, C. | NRAO Green Bank Facility | Brian Mason | Directly Measuring the Thermal Pressure Support of Ghost Bubbles in the ICM [B.S. Mason] | B | K | 21 | 2.50 |
| GBT07C-079 | Crapsi, A. Tafalla, M. | Leiden Observatory Observatorio Astronomica Nacional, Spain | Toney Minter | Testing the thermodynamics of dense starless cores [A. Crapsi] | K | S | 8 | 9.00 |
| GBT08A-020 | Hessels, J. W. T. Ransom, S. Kaspi, V. Roberts, M. Champion, D. Stappers, B. | ASTRON NRAO - CV McGill University Eureka Scientific, Inc. McGill University University of Manchester | Scott Ransom | Completing the GBT350 Pulsar and Transient Survey of the North Galactic Plane [J. W. T. Hessels] | 8 | G | 23 | 1.50 |
| GBT08A-037 | Edel, S. Ludovici, D. Lorimer, D. McLaughlin, M. Kondratiev, V. Ridley, J. | West Virginia University WVU West Virginia University | Scott Ransom | Radio monitoring of magnetars [D. Lorimer] | S | G | 12 | 5.50 |
| GBT08A-056 | Dicker, S. Devlin, M.J. | University of Pennsylvania Rutgers Univ. and Univ. of | Brian Mason | Observations with MUSTANG on the GBT at 3.3mm [S. Dicker] | M | O | 21 25 | 7.50 |

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| | Mason, B.S. Korngut, P. Olmi, L. Martin, P.G. Aguirre, J. | Pennsylvania NRAO Green Bank Facility CNR-Roma University of Toronto | | | | | | |
| GBT08B-017 | Deneva, J. Cordes, J. M. Lazio, T.J.W. | Cornell University NAIC and Cornell University Naval Research Laboratory | Scott Ransom | Spectrum Estimation and Timing of Two Highly Dispersed Pulsars Near SGR A* [J. Deneva] | S | G | 26 | 1.00 |
| GBT08B-023 | Ferdman, R. Stairs, I. Kramer, M. McLaughlin, M. Demorest, P. Nice, D. Burgay, M. Camilo, F. D'Amico, N. Hobbs, G. Lorimer, D. Lyne, A. G. Manchester, D.R. N. Possenti, A. Faulkner, A. Backer, D. C. | University of British Columbia University of British Columbia Jodrell Bank WVU UC Berkeley (Physics) Bryn Mawr College Istituto Nazionale di Astrofisica Columbia Astrophysics Laboratory Osservatorio di Cagliari Australia Telescope National Facility (ATNF) West Virginia University Manchester, University of Australia Telescope Istituto Nazionale di Astrofisica University of Manchester University of California, Berkeley | Scott Ransom | Timing Binary Pulsars from the Parkes Multibeam Survey [R. Ferdman] | L | BY | 2 28 | 5.00 |
| GBT08B-025 | Kramer, M. Stairs, I. McLaughlin, M. Ferdman, R. Camilo, F. Lyne, A. G. Manchester, D.R. N. Possenti, A. D'Amico, N. Burgay, M. Freire, P. | Jodrell Bank University of British Columbia WVU University of British Columbia Columbia Astrophysics Laboratory Manchester, University of Australia Telescope Istituto Nazionale di Astrofisica Osservatorio di Cagliari Istituto Nazionale di Astrofisica Arecibo Observatory | Scott Ransom | Timing and General Relativity in the Double Pulsar System [M. Kramer] | L | GYB | 19 20 | 6.50 |
| GBT08B-034 | Minter, A. Lockman, F. J. Benjamin, R.A. | NRAO - Green Bank NRAO-GB University of Wisconsin-Whitewater | Toney Minter | The Magnetic Field in the HVC Smith's Cloud and the Galactic Halo [A. Minter] | L | S | 19 | 3.50 |
| GBT08B-035 | Darling, J. Willett, K. | Colorado at Boulder, University of University of Colorado at Boulder | Frank Ghigo | A High Redshift OH Megamaser Survey [J. Darling] | A6 | S | 4 16 | 7.25 |
| GBT08B-049 | Butler, B. Bussey, B. | NRAO-Soc | Frank Ghigo | Observations of the Chandrayaan-1 and Lunar Reconnaissance Orbiter Spacecraft [B. Butler] | S | S | 28 | 5.00 |

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| GBT08C-009 | Smail, I. Genzel, R. Iverson, R. J. Hainline, L. Blain, A. W. Tacconi, L. J. Bertoldi, F. Greve, T.R. Neri, R. Chapman, S.C. Harris, A. Baker, A.C. Cox, P. Omont, A. | University of Durham University of California, Berkeley Edinburgh, University of Caltech (Physics, Maths and Astronomy) Caltech Astronomy MPE U Bonn Caltech (Physics, Maths and Astronomy) IRAM U of Cambridge University of Maryland University of Maryland IAS/Instit. d'Astrophys. Spatiale Inst. d'Astrophysique de Paris | Frank Ghigo | A Combined GBT/PdBI CO Survey of Submm Galaxies [I. Smail] | B | Z | 7 9 | 13.50 |
| GBT08C-014 | Camilo, F. Ransom, S. Halpern, J. P. Reynolds, J. E. | Columbia Astrophysics Laboratory NRAO - CV Columbia University Australia Telescope National F | Scott Ransom | Studying the magnetar XTE J1810-197 [F. Camilo] | SL | G | 12 26 | 1.50 |
| GBT08C-023 | Camilo, F. Ransom, S. Roberts, M. McLaughlin, M. Arzoumanian, Z. Freire, P. Romani, R. W. Halpern, J. P. Ray, P.S. | Columbia Astrophysics Laboratory NRAO - CV Eureka Scientific, Inc. WVU NASA/GSFC Arecibo Observatory Stanford University Columbia University Naval Research Lab | Scott Ransom | GLAST timing at GBT: six key radio-faint pulsars [F. Camilo] | S8L | GB | 6 23 | 10.00 |
| GBT08C-035 | Braatz, J. A. Condon, J. J. Greenhill, L. J. Henkel, C. Lo, F.K. Y. Reid, M. J. Kuo, C-Y. Zaw, I. Tilak, A. Hao, L. Lah, P. | NRAO - CV NRAO-CV CfA Max-Planck-Institut fur Radioa NRAO-CV Center for Astrophysics ASIAA Johns Hopkins Cornell Dept. of Astronomy | Jim Braatz | The Megamaser Cosmology Project: Year 2 [J. A. Braatz] | K | S | 3 | 8.00 |
| GBT08C-049 | Lynch, R. Ransom, S. Freire, P. Stairs, I. | Virginia, University of NRAO - CV Arecibo Observatory University of British Columbia | Scott Ransom | Timing of Newly Discovered MSPs in the Globular Cluster NGC6517 [R. Lynch] | S | U | 28 | 6.00 |
| GBT08C-070 | Zonak, S. Harris, A. | University of Maryland University of Maryland | Ron Maddalena | Deep Zpectrometer integration toward the Cloverleaf galaxy [A. Harris] | B | Z | 6 10 | 6.50 |

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| | Baker, A.C. Sharon, C. VandenBout, P. A. Maddalena, R. | University of Maryland NRAO-CV NRAO-Green Bank | | | | | | |
| GBT08C-072 | Mason, B.S. Compiègne, M. Martin, P.G. Dicker, S. Korngut, P. Devlin, M.J. Cotton, B.W. D. | NRAO Green Bank Facility University of Toronto University of Pennsylvania Rutgers Univ. and Univ. of Pennsylvania NRAO-CV | Brian Mason | Centimeter Wave Continuum Observations of Star Forming Regions in Orion [B.S. Mason] | B | K | 24 | 5.25 |
| GBT08C-073 | Harris, A. Baker, A.C. Zonak, S. Sharon, C. | University of Maryland University of Maryland University of Maryland | Toney Minter | A CO(1-0) Survey of Dusty Galaxies at High Redshift [A. Harris] | B | Z | 1 4 5 7 15 20 21 24 25 | 48.25 |
| GBT08C-076 | Ransom, S. Freire, P. Stairs, I. Hessels, J. W. T. Lynch, R. | NRAO - CV Arecibo Observatory University of British Columbia ASTRON Virginia, University of | Scott Ransom | Long Term Timing of 55 Recycled Pulsars in Bulge Globular Clusters [S. Ransom] | S | G | 8 11 13 | 25.25 |
| GBT08C-088 | Pineda, J. Rosolowsky, E. Foster, J. Arce, H.G. Caselli, P. Myers, P. C. Goodman, A. A. | Harvard-Smithsonian Center for Astrophysics Harvard-Smithsonian Center for Astrophysics Am. Museum of Natural History Harvard-Smithsonian Center for Astrophysics Center for Astrophysics Center for Astrophysics | Jules Harnett | The COMPLETE GBT Ammonia Mapping of Perseus - v2.0 [J. Pineda] | K | S | 13 16 | 4.75 |
| GBT08C-094 | Remijan, A. Milam, S. | National Radio Astronomy Observatory | Frank Ghigo | Molecular Survey Towards Comet C/2007 N3 (Lulin) [A. Remijan] | L | S | 2 8 15 16 27 | 10.75 |
| GBT09A-002 | Anderson, L. Bania, T. M. Balsler, D.S. Rood, R. T. | Boston University NRAO - Green Bank University of Virginia | Dana Balsler | Discovering Milky Way HII Regions [L. Anderson] | X | DS | 1 9 | 9.25 |
| GBT09A-003 | Freire, P. Ransom, S. Lynch, R. | Arecibo Observatory NRAO - CV Virginia, University of | Scott Ransom | Timing the pulsars in M62, NGC 6544 and NGC 6624 [P. Freire] | S | UG | 14 16 20 22 | 13.50 |
| GBT09A-005 | Maccarone, T. Miller-Jones, J. Koerding, E. Fender, R.P. | U Southampton Oxford Southampton U Southampton | Brian Mason | High frequency radio observations of Cygnus X-1 [T. Maccarone] | B | K | 14 17 24 | 12.75 |

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| | Migliari, S. Casella, P. | Amsterdam | | | | | | |
| GBT09A-007 | Lockman, F. J. Burton, W. B. | NRAO-GB | Jay Lockman | Straightening Out the Galactic Warp [F. J. Lockman] | L | S | 5 19 | 8.75 |
| GBT09A-016 | Lis, D. C. Gerin, M. Wootten, H. A. Bockelee-Morvan, D. Biver, N. Roueff, E. Coudert, L. Marcelino, N. Cernicharo, J. | Caltech Ecole Normale Superieure NRAO-CV LUTH - Observatoire de Meudon CSICIEMDpto. Fisica Molecular | Jim Braatz | GBT Survey of 15N Ammonia in Dense Cores [D. C. Lis] | K | S | 9 | 5.25 |
| GBT09A-017 | Lockman, F. J. Chynoweth, K. Langston, G. I. | NRAO-GB NRAO-GB | Jay Lockman | GBT HI Observations of "Wright's Cloud" [F. J. Lockman] | L | S | 3 6 7 8 13 15 22 23 28 | 48.00 |
| GBT09A-044 | Shirley, Y.L. Schenck, D. Mangum, J. G. Mason, B.S. Cotton, B.W. D. Dicker, S. Devlin, M.J. Kornigut, P. | University of Arizona NRAO Charlottesville NRAO Green Bank Facility NRAO-CV University of Pennsylvania Rutgers Univ. and Univ. of Pennsylvania | Brian Mason | Modeling the Dust Emission from Class 0 Protostars at 3mm [Y.L. Shirley] | M | | 5 | 3.50 |
| GBT09A-046 | Chynoweth, K. Langston, G. I. Holley-Bockelmann, K. | NRAO-GB | Glen Langston | A Search for Faint Extended HI in Nearby Galaxy Groups - copy [K. Chynoweth] | L | S | 1 2 10 11 12 17 18 19 22 27 | 47.75 |
| GBT09A-053 | Murphy, E. Condon, J. J. Turner, J. L. Schinnerer, E. Helou, G. Armus, L. | NRAO-CV UCLA MPIA IPAC, Caltech SSC/IPAC | Brian Mason | Radio Recombination Lines in KINGFISH Galaxies; NGC6946 Pilot Project [E. Murphy] | B | KS | 1 | 3.75 |
| GBT09A-059 | Li, D. Goldsmith, P. F. Stahler, S. | Jet Propulsion Laboratory Cornell | Jim Braatz | The 3-D Structure of the Molecular Filaments in Taurus [P. F. Goldsmith] | K | S | 17 25 | 12.75 |
| GBT09A-060 | Kobulnicky, H.C. Alexander, M. | University of Wyoming | Toney Minter | Characterizing a Massive Star Cluster of Red Supergiants using SiO Masers [H.C. Kobulnicky] | Q | S | 21 22 25 | 10.75 |
| GBT09A-072 | Nigra, L. Gallagher III, J. S. Stanimirovic, S. | University of Wisconsin Wisconsin NRAO-GB | Jay Lockman | Diagnosing the Agents of Aging on the Magellanic Stream [L. Nigra] | L | S | 14 | 2.25 |

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| GBT09A-073 | Boyles, J. Lorimer, D. McLaughlin, M. Ransom, S. Kondratiev, V. Stairs, I. Kaspi, V. Archibald, A. McPhee, C. Hessels, J. W. T. Lynch, R. Cordes, J. M. Roberts, M. Kasian, L. van Leeuwen, J. Deneva, J. Champion, D. | West Virginia University West Virginia University WVU NRAO - CV West Virginia University University of British Columbia McGill University ASTRON Virginia, University of NAIC and Cornell University Eureka Scientific, Inc. University of British Columbia University of British Columbia Cornell University McGill University | Scott Ransom | Timing new pulsars from the GBT 350-MHz drift-scan survey [J. Boyles] | L8 | GU | 4 23 | 3.75 |
| GBT09A-075 | Lynch, R. Ransom, S. Freire, P. Lorimer, D. Stairs, I. | Virginia, University of NRAO - CV Arecibo Observatory West Virginia University University of British Columbia | Scott Ransom | Searching for New Pulsars in Six Globular Clusters [R. Lynch] | S | U | 27 | 5.00 |
| GBT09A-076 | Claussen, M.J. Goss, W. M. Majewski, S.R. Carlin, J. | NRAO-SOC NRAO-SOC University of Virginia Univ. of Virginia | Jim Braatz | Proper Motions of the Sagittarius Tidal Stream and the Shape of the Halo [M.J. Claussen] | Q | S | 16 17 20 | 15.50 |
| GBT09A-079 | Grossan, B. Heiles, C. E. Goldston, J. | University of California | Jules Harnett | The Far-IR Background & the HI/Dust Foreground [B. Grossan] | L | P | 3 4 10 11 12 26 28 | 21.75 |
| GBT09A-085 | Aguirre, J. Spekkens, K.M.M. Mason, B.S. | Cornell University NRAO Green Bank Facility | Brian Mason | Searching for Dark Matter Annihilations in Nearby Dwarf Spheroidals [J. Aguirre] | L | SD | 5 17 25 26 27 28 | 31.75 |
| GLST011217 | Tomsick, J.A. Corbel, S. Migliari, S. Pottschmidt, K. Wilms, J. Rodriguez, J. Pooley, G. G. | Calif.-San Diego CEA-Saclay Amsterdam Switzerland Mullard Radio Astronomy Observ | Jim Braatz | Probing the High Energy Emission of Microquasars with Multi-wavelength observations [J.A. Tomsick] | X | SD | 6 12 20 25 | 6.75 |
| Maint | NRAO staff | | | Maintenance | 684 | | 2 3 4 10 18 19 26 | 54.25 |

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|-----------|---------------|-----------|-------------|-------------------|-------|-----------|--------|-------|
| Tests | band | | | K | K | | 21 | 2.50 |
| Tests | Langston | | | KFPA tests | K | | 12 | 4.50 |
| Tests | Hunter | | | HOLO | MH | | 5 6 | 8.00 |
| Tests | band tests | | | Ka | B | | 13 | 3.50 |
| Tests | Shelton | | | M&C Integ | LQBM | | 10 13 | 5.50 |
| Tests | Shelton | | | M&C Reg | LKQ | DSP | 16 | 4.00 |
| Tests | Hunter | | | OOF | M | | 6 | 3.75 |
| Tests | NRAO staff | | | OOF Hunter | MB | | 7 | 3.25 |
| Tests | Hunter | | | PTCS | H | | 27 | 4.50 |
| Tests | Hunter | | | Pointing | QMB | DSPK | 9 10 | 8.75 |
| Tests | NRAO staff | | | Pointing tests | KQ | | 13 | 1.25 |
| Tests | Hunter | | | QD Tests | X | | 20 | 1.50 |
| Tests | NRAO staff | | | RCO*4 | 4 | DSP | 26 | 1.00 |
| Tests | NRAO staff | | | RCO*6 | 6 | DSP | 12 | 0.75 |
| Tests | Perera | | | RCO*8 | 8 | DSP | 19 | 1.25 |
| Tests | NRAO staff | | | SCAL tests | L | | 28 | 1.75 |
| Tests | Whitehead | | | Software Tests | M | | 13 | 3.75 |
| Tests | NRAO staff | | | TCAL | | | 11 | 3.75 |
| Tests | NRAO staff | | | TRFI Scans | 4L | B | 26 28 | 1.00 |
| Tests | NRAO staff | | | TRFI test scans | L | B | 27 | 0.50 |
| Tests | NRAO staff | | | Un-assigned Tests | S | | 27 | 1.50 |
| Tests | NRAO staff | | | Tests TRFI Scans | 8 | | 19 | 0.25 |
| Total Hrs | Astronomy | 551.25 | | | | | | |
| | Maintenance | 54.25 | | | | | | |

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GBT Observing Schedule for February 2009

| Proposal | Investigators | Institute | NRAO Friend | Title | Bands | Back Ends | Days * | Hrs * |
|----------|----------------------|-----------|-------------|-------|-------|-----------|--------|-------|
| | Un-assigned Tests | 66.50 | | | | | | |

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

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

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