

GBT Observing Schedule for April 2008

| 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 | 7 10 15 23 28 29 30 | 51.00 |
| 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 | | The Megamaser Cosmology Project [L. J. Greenhill] | K | V | 12 13 14 15 16 18 19 21 22 | 62.50 |
| BL156 | Loinard, L. Torres, R.M. Mioduszewski, A. Rodriguez, L. F. | Instituto de Astronomia (UNAM, Morelia, Mexico) UNAM NRAO - SOC Instituto de Astronomia, UNAM | | Completing the VLBA mapping of nearby star-forming regions [A. Mioduszewski] | X | 5 | 20 | 8.50 |
| BM267 | Mutel, R. L. Guedel, M. Peterson, W. | University of Iowa Paul Scherrer Institute | | Time-Lapse Imaging of Algol's Radio Magnetosphere [R. L. Mutel] | U | 5 | 6 | 12.50 |
| GBT05A-029 | VandenBout, P. A. Solomon, P. Maddalena, R. | NRAO-CV SUNY at Stony Brook NRAO-Green Bank | Ron Maddalena | Search for Cold Molecular Gas at High Redshift [P. A. VandenBout] | B | SD | 6 15 24 | 5.25 |
| GBT07A-029 | Crutcher, R. M. Troland, T. H. Hakobian, N. | University of Illinois University of Kentucky University of Illinois | Toney Minter | A Definitive Test of Star Formation Theory [R. M. Crutcher] | L | P | 1 | 3.50 |
| 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 Technology | Larry Morgan | A GBT Legacy Survey of Prebiotic Molecules Toward SgrB2(N-LMH) and TMC-1 [J. M. Hollis] | BK | S | 2 7 29 | 15.25 |
| 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 | 2 3 6 7 22 23 24 | 31.75 |
| GBT07A-086 | Bregman, J. N. Irwin, M.J. | University of Michigan Institute of Astronomy | Jim Braatz | The Detection of the Missing Baryons with the NVII Line [J. N. Bregman] | Q | S | 3 | 2.75 |
| GBT07A-087 | Demorest, P. Jacoby, B.A. Ferdman, R. Backer, D. C. Stairs, I. | UC Berkeley (Physics) Naval Research Lab University of British Columbia University of California, Berkeley University of British Columbia | Scott Ransom | Detecting nHz Gravitational Radiation using a Pulsar Timing Array [P. Demorest] | S8L | RY | 17 18 19 20 22 24 25 | 22.25 |

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

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| | Nice, D. Lommen, A. Ransom, S. Bailes, M. Cognard, I | Bryn Mawr College Franklin and Marshall College NRAO - CV Swinburne University of Technology CNRS-Orleans | | | | | | |
| GBT07B-025 | Ransom, S. Stairs, I. Freire, P. Hessels, J. W. T. | NRAO - CV University of British Columbia Arecibo Observatory Universiteit van Amsterdam | Scott Ransom | Continued Timing of the Millisecond Pulsars in M28, NGC6440 and NGC6441 [S. Ransom] | S | G | 17 21 | 9.00 |
| GBT07B-029 | 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 | 22 | 5.25 |
| GBT07B-031 | Majewski, S.R. Claussen, M.J. Goss, W. M. | University of Virginia NRAO-SOC NRAO-SOC | Larry Morgan | Proper Motions of the Sagittarius Tidal Stream and the Shape of the Halo [M.J. Claussen] | K | S | 30 | 7.75 |
| GBT07B-034 | Ferdman, R. Stairs, I. Kramer, M. McLaughlin, M. Faulkner, A. Backer, D. C. Demorest, P. Nice, D. Burgay, M. Camilo, F. D'Amico, N. Hobbs, G. Lorimer, D. Lyne, A. G. Manchester, D.R. N. Possenti, A. | University of British Columbia University of British Columbia Jodrell Bank WVU University of Manchester University of California, Berkeley 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 | Scott Ransom | Timing Binary and Millisecond Pulsars from the Parkes Multibeam Survey [R. Ferdman] | L | Y | 4 5 | 11.25 |
| GBT07C-030 | Bregman, J. N. Irwin, M.J. Ji, J. | University of Michigan Institute of Astronomy | D.J. Pisano | The Detection of Redshifted Hot Baryons with the NVII Line [J. N. Bregman] | KB | S | 2 8 9 | 11.50 |

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| GBT07C-033 | Hessels, J. W. T. Ransom, S. Weltevrede, P. Kaspi, V. Stappers, B. Champion, D. Roberts, M. | Universiteit van Amsterdam NRAO - CV McGill University Netherlands Foundation for Research in Astronomy McGill University Eureka Scientific, Inc. | Scott Ransom | Follow-up Studies of Recent GBT Pulsar Discoveries [J. W. T. Hessels] | 8 | G | 26 | 1.00 |
| GBT07C-049 | Pineda, J. Rosolowsky, E. Foster, J. Arce, H.G. Goodman, A. A. Caselli, P. Myers, P. C. | Harvard-Smithsonian Center for Astrophysics Harvard-Smithsonian Center for Astrophysics Am. Museum of Natural History Center for Astrophysics Harvard-Smithsonian Center for Astrophysics Center for Astrophysics | Jules Harnett | The COMPLETE GBT Ammonia Mapping of Perseus [J. Pineda] | K | S | 23 27 | 6.75 |
| GBT07C-056 | Darling, J. Zeiger, B. Wiklind, T. | Colorado at Boulder, University of University of Colorado Space Telescope Science Institute | Ron Maddalena | Formaldehyde in the Gravitational Lens PKS 1830-211 [J. Darling] | B | S | 26 | 3.00 |
| GBT07C-057 | Darling, J. Mangum, J. G. Willett, K. | Colorado at Boulder, University of NRAO Charlottesville University of Colorado at Boulder | Frank Ghigo | A Critical Density for OH Megamasers? Formaldehyde Holds the Key [J. Darling] | C | S | 23 | 3.00 |
| GBT07C-060 | Camilo, F. Ransom, S. Roberts, M. McLaughlin, M. Arzoumanian, Z. Freire, P. Lorimer, D. Ray, P.S. Romani, R. W. Halpern, J. P. | Columbia Astrophysics Laboratory NRAO - CV Eureka Scientific, Inc. WVU NASA/GSFC Arecibo Observatory West Virginia University Naval Research Lab Stanford University Columbia University | Scott Ransom | GLAST timing at GBT: six key radio-faint pulsars [F. Camilo] | S8 | BG | 18 22 25 | 4.75 |
| GBT07C-066 | Hewitt, J. Yusef-Zadeh, F. Heinke, C. | Northwestern University Northwestern University Carleton College | Frank Ghigo | The Origins of Thermal Emission from Interacting Supernova Remnant G359.1-0.5 [J. Hewitt] | CX | S | 6 9 20 22 | 15.25 |
| GBT07C-084 | Kasian, L. Stairs, I. Kramer, M. Lorimer, D. | University of British Columbia University of British Columbia Jodrell Bank West Virginia University | Scott Ransom | GBT Timing of a Young Highly Relativistic Binary Pulsar [L. Kasian] | L | G | 12 | 4.50 |
| GBT07C-086 | Gupta, H. Thaddeus, P. Remijan, A. Gottlieb, C. A. | Harvard-Smithsonian Center for Astrophysics Center for Astrophysics National Radio Astronomy | Toney Minter | A Survey of C6H- and C6H in Carbon Chain Sources in the Galaxy [H. Gupta] | XK | S | 1 7 8 12 13 14 16 17 23 | 49.50 |

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| | McCarthy, M. Bruenken, S. | Observatory Harvard University Harvard-Smithsonian Center for Astrophysics Harvard-Smithsonian Center for Astrophysics | | | | | | |
| GBT08A-011 | McLaughlin, M. Lorimer, D. Boyles, J. Cordes, J. M. Lyne, A. G. Kramer, M. | WVU West Virginia University West Virginia University NAIC and Cornell University Manchester, University of Jodrell Bank | Scott Ransom | Continued Radio Timing Observations of RRAT Sources [M. McLaughlin] | 8 | G | 1 3 6 | 4.00 |
| GBT08A-014 | Lockman, F. J. Benjamin, R.A. | NRAO-GB University of Wisconsin-Whitewater | Jay Lockman | On the Trail of Smith's Cloud [F. J. Lockman] | L | S | 11 27 | 7.50 |
| GBT08A-020 | Hessels, J. W. T. Ransom, S. Kaspi, V. Roberts, M. Champion, D. Stappers, B. | Universiteit van Amsterdam NRAO - CV McGill University Eureka Scientific, Inc. McGill University Netherlands Foundation for Research in Astronomy | Scott Ransom | Completing the GBT350 Pulsar and Transient Survey of the North Galactic Plane [J. W. T. Hessels] | 8 | G | 4 19 20 21 26 | 15.00 |
| GBT08A-021 | Mangum, J. G. Darling, J. Menten, K. M. Henkel, C. | NRAO Charlottesville Colorado at Boulder, University of Max-Planck-Institut Fur Radioa Max-Planck-Institut fur Radioa | Jim Braatz | Formaldehyde Densitometry of IR-Bright Galaxies [J. G. Mangum] | U | S | 14 26 | 9.50 |
| GBT08A-027 | Lim, J. Yamada, T. Dinh, V.T. | Academia Sinica, IAA RIKEN 2-1 ASIAA | D.J. Pisano | Cool Molecular Gas in Dust-Luminous Ly-alpha Blobs at High Redshifts [J. Lim] | B | S | 24 | 3.75 |
| GBT08A-033 | Blanton, M.R. Geha, M. West, A.A. Kazin, E. | New York University Carnegie Observatories California at Berkeley, University of | Jules Harnett | Testing the cold dark matter mass function with dwarf disk galaxies [M.R. Blanton] | L | S | 9 11 13 19 26 | 22.75 |
| 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 | 20 | 4.50 |
| GBT08A-039 | Balser, D.S. Roshi, A.D. Bania, T. M. Rood, R. T. | NRAO - Green Bank Raman Research Institute Boston University University of Virginia | Dana Balser | Magnetic Fields in Photo-Dissociation Regions [D.S. Balser] | C | S | 5 27 | 7.00 |

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| GBT08A-040 | Thaddeus, P. Gottlieb, C. A. Bruenken, S. Gupta, H. McCarthy, M. | Center for Astrophysics Harvard University Harvard-Smithsonian Center for Astrophysics Harvard-Smithsonian Center for Astrophysics Harvard-Smithsonian Center for Astrophysics | Larry Morgan | A Search for the Negative Molecular Ions C4H-, C3N-, and CH2CN- [C. A. Gottlieb] | XK | S | 23 27 28 29 30 | 25.75 |
| GBT08A-041 | Darling, J. Zeiger, B. | Colorado at Boulder, University of University of Colorado | Ron Maddalena | Formaldehyde Absorption in the Gravitational Lens PKS 1830-211 [J. Darling] | SU | S | 28 30 | 6.50 |
| GBT08A-043 | Darling, J. Willett, K. | Colorado at Boulder, University of University of Colorado at Boulder | Toney Minter | An OH Megamaser Survey at z~1 [J. Darling] | L8* | S | 1 3 10 26 28 | 19.25 |
| GBT08A-047 | Carilli, C. L. Datta, A. Greenhill, L. J. Minter, A. Briggs, F. H. Maruca, B. | NRAO - Socorro CfA NRAO - Green Bank ANU | Toney Minter | First limits to the IGM during cosmic reionization using the H 2p-2s transition [C. L. Carilli] | L | S | 1 3 5 9 15 19 20 25 26 | 30.25 |
| GBT08A-054 | Araya, E. Hofner, P. Goss, W. M. Linz, H. Kurtz, S. Loinard, L. Olmi, L. Sewilo, M. | New Mexico Tech New Mexico Tech NRAO-SOC TLS Tautenburg/MPIA UNAM Instituto de Astronomia (UNAM, Morelia, Mexico) CNR-Roma University of Wisconsin | D.J. Pisano | Correlated Variability of Astrophysical Masers II: Flares in IRAS18566+0408 [E. Araya] | CUK | S | 7 15 | 4.00 |
| GBT08A-057 | Donovan, J. Hibbard, J. E. van Gorkom, J.H. | Columbia University NRAO-CV Columbia University | Jules Harnett | A Continuing Search for Wet Mergers in a Dry Sample [J. Donovan] | L | P | 2 4 6 9 10 12 | 21.00 |
| GBT08A-062 | Darling, J. Macdonald, E. | Colorado at Boulder, University of | Jules Harnett | A "Blind" HI Absorption Pilot Survey of the Local Universe [J. Darling] | L | S | 26 27 | 5.50 |
| GBT08A-068 | Johnson, R. Wegner, G. Owen, D. | Dartmouth College | Jules Harnett | Detecting merger activity among galactic cluster pairs [R. Johnson] | L | D | 5 | 7.00 |
| GBT08A-069 | Margot, J.L. Peale, S. Slade, M. | Cornell University Dept. of Physics, U. of Calif., Santa Barbara JPL | Frank Ghigo | Spin state and interior of Mercury [J.L. Margot] | X | X | 12 14 | 4.00 |
| GBT08A-072 | Courtois, H. Tully, R.B. Fisher, R. Zavodny, M. | Institute for Astronomy Institute for Astronomy NRAO Green Bank Facility | Rick Fisher | Bulk motions of filaments in the Local Universe [H. Courtois] | L | S | 6 11 | 3.00 |

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| | Bonhomme, N. | | | | | | | |
| GBT08A-075 | Higdon, J. L. Koopmann, R. Higdon, S.J. Haynes, M. P. Giovannelli, R. Kent, B. | Cornell University Union College Cornell Cornell University Cornell University Cornell University | Jules Harnett | Mapping a 500 kpc HI Plume in the Virgo Cluster with the GBT [J. L. Higdon] | L | S | 16 17 18 20 21 | 12.50 |
| GBT08A-077 | 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] | S | G | 4 18 21 22 | 7.75 |
| GBT08A-081 | Bandura, K. Pen, U-L Peterson, J. Chang, T-C | Toronto, University of Carnegie Mellon University UoT/CITA | Toney Minter | HI Brightness Mapping of DEEP2 Fields [K. Bandura] | 8 | S | 25 28 29 | 16.00 |
| GBT08A-082 | Yun, M. Borthakur, S. Tripp, T. Bowen, D. V. York, D. | University of Massachusetts University of Massachusetts University of Massachusetts Princeton University University of Chicago | Jules Harnett | Probing Distribution and Physical Characteristics of HI Clouds in Galaxy Halos [M. Yun] | L | S | 9 10 11 12 13 27 | 26.25 |
| GBT08A-083 | Goncalves, D. Martin, P.G. Lockman, F. J. | University of Toronto NRAO-GB | Jay Lockman | The North Celestial Pole Loop [D. Goncalves] | L | S | 1 4 11 | 14.75 |
| GBT08A-090 | McLaughlin, M. Rea, N. Lyne, A. G. Kramer, M. | WVU Manchester, University of Jodrell Bank | | Contemporaneous Radio and X-ray Observations of RRAT J1819-1458 [M. McLaughlin] | S | G | 1 | 8.00 |
| Calibratio | Ghigo | | | Gain Cal | K | K | 7 8 | 12.00 |
| Maint | NRAO staff | | | Maintenance | 8 | | 2 3 8 11 17 18 22 29 | 61.00 |
| Tests | Hunter | | | HOLO | UX | | 15 28 | 8.75 |
| Tests | NRAO staff | | | RCO U & C | CU | DSP | 3 4 | 3.00 |
| Tests | Waedon | | | Servo tests | | | 18 | 2.00 |
| Total Hrs | Astronomy Calibration Maintenance Un-assigned Tests | 633.25 12.00 61.00 13.75 | | | | | | |

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