

GBT Observing Schedule for April 2007

| Proposal | Investigators | Institute | NRAO Friend | Title | Bands | Back Ends | Days * | Hrs * |
|------------|---|---|---------------|--|-------|-----------|-----------------------------|------------------|
| BB231 | 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: Measuring Distances to NGC6323 and Mrk 1419 [J. A. Braatz] | K | V | 6 7 8 9 28 29 | 50.00 |
| BB241 | Bietenholz, M. F. Bartel, N. Ransom, S. Kondratiev, V. | York University York University NRAO - CV West Virginia University | | Proper motion of 3C 58's pulsar [M. F. Bietenholz] | L | 5 | 25 | 12.50 |
| BB247 | Busch, M.W. Benner, L.A.M. Ostro, S. Black, G. Kulkarni, S.R. | Jet Propulsion Laboratory JPL UVA Caltech | | Radar Interferometric Imaging of Near-Earth Asteroid VV2 [M.W. Busch] | X | 5 | 1 | 1.75 |
| GBT02A-054 | Stairs, I. Lyne, A. G. Kramer, M. Athanasiadis, D. | University of British Columbia Manchester, University of Jodrell Bank Nuffield Radio Astronomy Laboratories | Scott Ransom | High-resolution Studies of a Precessing Pulsar [I. Stairs] | L | BY | 12 | 6.00 |
| GBT06A-033 | Bond, H. Claussen, M.J. Healy, K. Starrfield, S. | STScI NRAO-SOC Arizona State University Arizona State | Ron Maddalena | Search for SiO Masers in Eruptive Variable Stars Similar to V838 Monocerotis [M.J. Claussen] | Q | S | 3 6 | 6.50 |
| GBT06A-054 | Demorest, P. Backer, D. C. Ferdman, R. Stairs, I. Nice, D. Jacoby, B.A. Bailes, M. Ord, S. | UC Berkeley (Physics) University of California, Berkeley University of British Columbia University of British Columbia Princeton University Naval Research Lab Swinburne University of Technology Swinburne University of Technology | Scott Ransom | Long-term Precision Timing of Millisecond Pulsars [P. Demorest] | L8 | YR | 27 28 29 30 | 15.50 |
| GBT06B-015 | Morgan, L. Urquhart, J. Thompson, M.A. | National Radio Astronomy Observatory (NRAO) University of Leeds The University Of Hertfordshire | Larry Morgan | NH3 and CCS Mapping of Triggered Star Formation Regions [L. Morgan] | K | S | (21 28 29) | (16.50) |
| GBT06B-018 | Kramer, M. Stairs, I. McLaughlin, M. Ferdman, R. Camilo, F. Lyne, A. G. | Jodrell Bank University of British Columbia WVU University of British Columbia Columbia Astrophysics Laboratory Manchester, University of | Scott Ransom | Timing and General Relativity in the Double Pulsar System [M. Kramer] | 83 | GBY | 9 11 12 [14 16 21 23 25] | 21.00 [37.25] |

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

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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| | Manchester, D.R. N. Possenti, A. D'Amico, N. Burgay, M. Freire, P. | Australia Telescope Istituto Nazionale di Astrofisica Osservatorio di Cagliari Istituto Nazionale di Astrofisica Arecibo Observatory | | | | | | |
| GBT06B-028 | Stairs, I. Thorsett, S. Arzoumanian, Z. | University of British Columbia University of California, Santa Cruz NASA/GSFC | Scott Ransom | Timing the Planet Pulsar in M4 [I. Stairs] | L | BY | 12 | 2.00 |
| GBT06B-032 | Begin, S. Freire, P. Ransom, S. Stairs, I. Hessels, J. W. T. Kaspi, V. Camilo, F. | University of British Columbia Arecibo Observatory NRAO - CV University of British Columbia Universiteit van Amsterdam McGill University Columbia Astrophysics Laboratory | Scott Ransom | Timing of the Binary and Millisecond Pulsars in M28 [S. Begin] | S | G | 11 | 3.50 |
| GBT06B-033 | Hessels, J. W. T. Ransom, S. Kaspi, V. Champion, David Roberts, M. | Universiteit van Amsterdam NRAO - CV McGill University McGill University Eureka Scientific, Inc. | Scott Ransom | Completing a 350-MHz Survey of the Galactic Plane for Pulsars and Transients [J. W. T. Hessels] | 8 | G | 11 | 1.25 |
| GBT06B-037 | Weisberg, J. M. Johnston, S. Koribalski, B. Minter, A. Stanimirovic, S. | Carleton College Australia Telescope National Facility (ATNF) Australia Telescope National F NRAO - Green Bank Wisconsin | Toney Minter | Probing the Small-Scale Structure of Molecular Gas with Pulsar B1641-45 [J. M. Weisberg] | L | M | 6 | 4.00 |
| GBT06B-044 | Ferdman, R. Stairs, I. Backer, D. C. Burgay, M. Camilo, F. D'Amico, N. Demorest, P. Faulkner, A. Hobbs, G. Kramer, M. Lorimer, D. Lyne, A. G. Manchester, D.R. N. McLaughlin, M. Nice, D. Possenti, A. | University of British Columbia University of British Columbia University of California, Berkeley Istituto Nazionale di Astrofisica Columbia Astrophysics Laboratory Osservatorio di Cagliari UC Berkeley (Physics) University of Manchester Australia Telescope National Facility (ATNF) Jodrell Bank West Virginia University Manchester, University of Australia Telescope WVU Princeton University Istituto Nazionale di Astrofisica | Scott Ransom | Timing Binary and Millisecond Pulsars from the Parkes Multibeam Survey [R. Ferdman] | L | YGB | 19 [14 16 17 18] | 8.50 [9.50] |
| GBT06C-003 | Remijan, A. | National Radio Astronomy | Larry Morgan | Additional Transitions of Interstellar Methyl Isocyanate | K | S | 10 13 | 5.50 |

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| | Hollis, J. M. Lovas, F. J. Jewell, P. R. | Observatory NASA/GSFC Nat'l Instit. of Standards and Technology NRAO-CV | | (CH3NCO) [A. Remijan] | | | (14 16 17 18 22 24 26 30) | (21.25) |
| GBT06C-045 | Champion, David Kaspi, V. Hessels, J. W. T. Woods, P. Thompson, C. | McGill University McGill University Universiteit van Amsterdam Space Science Research Center Canadian Institute for Theoretical Astrophysics | Scott Ransom | A Search for Radio Emission from Magnetars after Outburst [David Champion] | S | G | 1 21 [14 16] | 3.00 [3.00] |
| GBT06C-048 | Kanekar, N. Ellison, S.E. Prochaska, J. York, B | NRAO-AOC University of Victoria University of California University of Victoria | Toney Minter | HI 21cm absorption in strong MgII and CI absorbers in the redshift desert [N. Kanekar] | 8 | P | 17 | 4.50 |
| GBT06C-051 | Greenhill, L. J. Braatz, J. A. Henkel, C. Kuiper, T. B. H. Jauncey, D. L. Lovell, J.E.J. Madejski, G. M. Moran, J. M. Peck, A.B. Wilson, A. S. | CfA NRAO - CV Max-Planck-Institut fur Radioa JPL ATNF ATNFC/o COSSA Stanford SLAC CfA Center for Astrophysics University of Maryland | Jim Braatz | Monitoring 2 NGC4258-like Masers: Measurement of Distances / Constraint of LCDM [L. J. Greenhill] | K | S | 2 3 10 (17 19 21 23) | 8.00 (16.00) |
| GBT06C-056 | Thaddeus, P. Gupta, H. Gottlieb, C. A. Bruenken, S. | Center for Astrophysics Harvard-Smithsonian Center for Astrophysics Harvard University Harvard-Smithsonian Center for Astrophysics | Ron Maddalena | Search for the Five-Membered Aromatic Heterocyclic Ring Pyrrole (c-C4H5N) [H. Gupta] | UKC | S | 7 9 11 [14 15 16 22] | 18.00 [28.75] |
| GBT06C-105 | Wagg, J. Kanekar, N. Carilli, C. L. Wang, R. Owen, F. N. | NRAO - Soc NRAO-AOC NRAO - Socorro NRAO NRAO-SOC | Ron Maddalena | A confirmation of strong CO J=1-0 emission at z=5.2 [J. Wagg] | K | S | 10 [29] (18 19 20) | 2.00 [5.25] (5.00) |
| GBT07A-015 | Mangum, J. G. Menten, K. M. Henkel, C. Darling, J. | NRAO Charlottesville Max-Planck-Institut Fur Radioa Max-Planck-Institut fur Radioa Colorado at Boulder, University of | Frank Ghigo | Formaldehyde Densitometry of External Galaxies [J. G. Mangum] | U | S | (22 23) | (5.25) |
| GBT07A-016 | Donovan, J. van Gorkom, J.H. Hibbard, J. E. van Dokkum, P. | Columbia University Columbia University NRAO-CV Yale University | Frank Ghigo | How "Dry" Are Dry Mergers? [J. Donovan] | L | S | 23 [13 14 15 16 17 18 19 20 22 23 24 25 26 27] | 2.50 [70.50] |

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| GBT07A-021 | Wolfe, A. M. Jorgenson, R. Heiles, C. E. Robishaw, T. | University of California-San D University of California at San Diego University of California University of California at Berkeley | Toney Minter | Detection of B Fields in Damped Lyman-alpha Sytems [A. M. Wolfe] | 8 | P | 1 2 3 4 5 6 8 12 13 | 63.75 |
| GBT07A-023 | Welch, G.A. Sage, L. J. | St. Mary's University University of Maryland | Toney Minter | The First Survey of HI in a Volume-limited Sample of Elliptical Galaxies [G.A. Welch] | L | S | 23 [21 23 24 25 26 27] | 3.00 [39.25] |
| GBT07A-031 | 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: Accelerations in Maser Disks [J. A. Braatz] | K | S | (13 14 16) | (9.00) |
| GBT07A-034 | Braatz, J. A. Condon, J. J. Greenhill, L. J. Henkel, C. Reid, M. J. Lo, F.K. Y. Hao, Lei | NRAO - CV NRAO-CV CfA Max-Planck-Institut fur Radioa Center for Astrophysics NRAO-CV Cornell Dept. of Astronomy | Jim Braatz | The Megamaser Cosmology Project: A Survey for H2O Masers in SDSS and 2MRS AGNs [J. A. Braatz] | K | S | 3 6 11 (14 15 16 22 24 25 26) | 13.00 (23.75) |
| GBT07A-037 | O'Neil, K. Davies, J. Auld, R. Cortese, L. | NRAO - GB Cardiff University University of Cardiff Cardiff, University of | Karen O'Neil | Further Observations of HI in Galaxies and Environments [K. O'Neil] | L | S | [18 19 20 21 23 27 28 29 30] | [51.25] |
| GBT07A-038 | Greaves, J. | | Larry Morgan | Detecting grain growth around T Tauri stars [J. Greaves] | B | K | (21 23 24 26) | (19.00) |
| GBT07A-040 | Weintraub, L. Mason, B.S. Readhead, A. C. S. Pearson, T. J. | California Institute of Technology NRAO Green Bank Facility Caltech Caltech | Brian Mason | Detecting the Origin of Arcminute Scale CMB Anisotropy [L. Weintraub] | B | K | 2 3 | 13.00 |
| GBT07A-041 | Crapsi, A. Tafalla, M. Caselli, P. Bourke, T. Myers, P. C. Walmsley, C. M. | Leiden Observatory Observatorio Astronomica Nacional, Spain Harvard-Smithsonian Center for Astrophysics Center for Astrophysics Center for Astrophysics Osservatorio Astrofisico di Ar | Jim Braatz | The temperature structure in the Vello prototype L1014 [A. Crapsi] | K | S | (18 20 24 26) | (21.00) |
| GBT07A-042 | Tarchi, A. Braatz, J. A. Henkel, C. Brunthaler, A. Menten, K. M. | Istituto Nazionale di Astrofisica NRAO - CV Max-Planck-Institut fur Radioa MPIfR Max-Planck-Institut Fur Radioa | Jim Braatz | H2O versus continuum in the nucleus of the megamaser galaxy 3C403 [A. Tarchi] | K | S | (14 16) | (6.00) |

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| GBT07A-053 | Lorimer, D. Ransom, S. McLaughlin, M. Cordes, J. M. Kondratiev, V. Stairs, I. Kasian, L. Kaspi, V. Katz, J. Hessels, J. W. T. Roberts, M. Deneva, J. Champion, David van Leeuwen, Joeri Boyles, J. | West Virginia University NRAO - CV WVU NAIC and Cornell University West Virginia University University of British Columbia University of British Columbia McGill University Virginia, University of Universiteit van Amsterdam Eureka Scientific, Inc. Cornell University McGill University University of British Columbia West Virginia University | Toney Minter | A 350-MHz drift-scan survey for pulsars with the GBT [D. Lorimer] | 3 | S | 30 | 6.50 |
| GBT07A-058 | Greaves, J. Jardine, M. Cameron, A. Langston, G. I. Backer, D. C. | Univ. St. Andrews University of St Andrews NRAO-GB University of California, Berkeley | Glen Langston | Cyclotron emission associated with exo-planets [J. Greaves] | 3 | M | 20 21 22 23 27 | 20.00 |
| GBT07A-061 | Osten, R.A. Hawley, S.L. Mathioudakis, M. Allred, J. | Maryland, University of University of Washington Queens University Belfast Drexel University | Scott Ransom | Coordinated radio and optical observations of flare stars [R.A. Osten] | S | G | 1 2 4 5 | 12.50 |
| GBT07A-074 | Hewitt, J. Yusef-Zadeh, F. | Northwestern University Northwestern University | Ron Maddalena | Follow-Up of Radio Recomb Lines Associated with Supernova Remnants [J. Hewitt] | C | S | 3 | 3.00 |
| GBT07A-080 | McLaughlin, M. Lorimer, D. Lyne, A. G. Manchester, D.R. N. Stairs, I. Kramer, M. Camilo, F. Possenti, A. Burgay, M. Cordes, J. M. Hill, M. | WVU West Virginia University Manchester, University of Australia Telescope University of British Columbia Jodrell Bank Columbia Astrophysics Laboratory Istituto Nazionale di Astrofisica Istituto Nazionale di Astrofisica NAIC and Cornell University West Virginia University | Scott Ransom | Continued Radio Timing Observations of RRAT Sources [M. McLaughlin] | 3 | O | [21 23] | [2.00] |
| GBT07A-089 | Camilo, F. Ransom, S. Lorimer, D. | Columbia Astrophysics Laboratory NRAO - CV West Virginia University | Scott Ransom | PSR J1833-1034, the Very Young Pulsar in the SNR G21.5-0.9 [F. Camilo] | 8 | B | 11 | 1.75 |
| GBT07A-094 | Ransom, S. Hessels, J. W. T. Stairs, I. Freire, P. | NRAO - CV Universiteit van Amsterdam University of British Columbia Arecibo Observatory | Scott Ransom | Continued Timing of the 33 Millisecond and Binary Pulsars in Terzan 5 [S. Ransom] | S | G | 4 | 8.00 |

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| | Camilo, F. Kaspi, V. | Columbia Astrophysics Laboratory McGill University | | | | | | |
| GBT07A-098 | Camilo, F. Ransom, S. Halpern, J. P. Reynolds, J. E. Helfand, D. J. | Columbia Astrophysics Laboratory NRAO - CV Columbia University Australia Telescope National F Columbia University | Scott Ransom | Studying the magnetar XTE J1810-197 [F. Camilo] | S8CX | B | 1 2 3 5 6 10 13 15 17 18 21 22 24 26 27 28 [14 16] (14 16) | 22.75 [2.00] (2.00) |
| GBT07A-100 | Thaddeus, P. Gupta, H. Gottlieb, C. A. McCarthy, M. Bruenken, S. | Center for Astrophysics Harvard-Smithsonian Center for Astrophysics Harvard University Harvard-Smithsonian Center for Astrophysics Harvard-Smithsonian Center for Astrophysics | Frank Ghigo | Search for the anions C4H- and C8H- in TMC-1 and additional observations of C6H- [C. A. Gottlieb] | KU | S | 6 8 10 13 (14 15 16 17 18 19 20 22 28) | 31.75 (73.25) |
| GBT07A-101 | Dickinson, Clive Casassus, Simon Cleary, Kieran Paladini, R. Weintraub, L. Mason, B.S. Lawrence, C. R. | Jet Propulsion Laboratory Chile, Universidad de Jet Propulsion Laboratory California Institute of Technology California Institute of Technology NRAO Green Bank Facility Jet Propulsion Laboratory | Brian Mason | Ka-band CCB high-resolution mapping of spinning dust [Clive Dickinson] | B | K | (24 25 26 27) | (28.25) |
| Comm | NRAO staff | | | Ka Comm | Ka | S | 7 | 3.75 |
| Maint | NRAO staff | | | Install 340MHz | 3 | | 19 | 3.00 |
| Maint | NRAO staff | | | Install 800MHz | 8 | | 27 | 4.00 |
| Maint | NRAO staff | | | L band rpr | L | | 2 | 4.00 |
| Maint | NRAO staff | | | Maintenance | | | 5 12 13 17 [24 26] | 29.50 [17.00] |
| Maint | NRAO staff | | | Track Repair | | | 30 | 10.50 |
| Maint | NRAO staff | | | VP | | | 14 | 2.00 |
| Tests | NRAO staff | | | OOF Tests | KQB | DSP | (17 19 24 25 26 27) | (14.75) |
| Tests | NRAO staff | | | OOF tests | BQ | DSP | (18 20) | (12.00) |
| Tests | Hunter Ghigo | | | Pointing | X | DSP | 10 (29) | 7.00 (5.25) |
| Tests | NRAO staff | | | RCO*3 300MHz | 3 | DSP | 19 | 1.50 |

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| Tests | NRAO staff | | | RCO*8 800MHz | 8 | DSP | 27 | 1.50 |
| Tests | Ford | | | Servo tests | | | [18 20] | [9.00] |
| Total Hrs | Astronomy | 621.25 | 248.75 | | | | | |
| | Commissioning | 3.75 | | | | | | |
| | Maintenance | 53.00 | 17.00 | | | | | |
| | Un-assigned | | | | | | | |
| | Tests | 42.00 | 9.00 | | | | | |

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