

GBT Observing Schedule for December 2003

| Proposal | Investigators | Institute | NRAO Friend | Title | Bands | Back Ends | Days * | Hrs * |
|------------|--|--|---------------------------|--|-------|-----------|--------------------------|---------|
| BU027 | Ulvestad, J. Neff, S. G. Teng, S. | NRAO GSFC University of Maryland | | Monitoring Young Supernovae in Arp 299 [J. Ulvestad] | SX | V | 29 | 10.00 |
| GBT01A-061 | Lane, W. Briggs, F. H. Chengalur, J. Kanekar, N. Kassim, N. E. | Naval Research Lab ANU NCRA (TIFR) Kapteyn Astronomical Institute NRL | G. I. Langston | A blind search for redshifted HI 21cm Absorption [W. Lane] | 8 | SP | [11 12 15 16] | [29.00] |
| GBT02A-025 | Hollis, J. M. Jewell, P. R. Lovas, F. J. Mollendal, H. | NASA/GSFC NRAO-GB National Institute of Standards and Technology University of Oslo, Dept. of Chemistry, Oslo, Norw | | A Search for the Next Interstellar Aldehyde Sugar: Glyceraldehyde [J. M. Hollis] | UK | S | (28) | (10.00) |
| GBT02A-031 | Lockman, F. J. | NRAO-GB | F. J. Lockman | Galactic HI Mapping of X-Ray, UV, and Optical Deep Fields [F. J. Lockman] | L | SP | [12] | [6.50] |
| GBT02A-046 | Braatz, J. A. Henkel, C. Wilson, A. S. | NRAO Max-Planck-Institut fur Radioa University of Maryland | J. A. Braatz | Monitoring a Maser Disk in Mrk 1419 [J. A. Braatz] | K | S | (15 18) | (8.75) |
| GBT02A-062 | Camilo, F. Halpern, J. P. Stairs, I. Backer, D. C. Arzoumanian, Z. | Columbia Astrophysics Laboratory Columbia University University of British Columbia University of California, Berkeley NASA/GSFC | F. D. Ghigo | Studying PSR J2229+6114: an Energetic Gamma-ray Emitting Young Pulsar [F. Camilo] | L6 | B | 2 3 | 2.50 |
| GBT02A-063 | Claussen, M. J. Wootten, H. A. Marvel, K. Wilking, B. A. | NRAO-SOC NRAO-CV American Astronomical Society University of Missouri | R. Maddalena A. Minter | Water Maser Monitoring of Low and Intermediate Mass Young Stellar Objects [M. J. Claussen] | K | S | (10 11 13 14 28 31) | (17.50) |
| GBT02A-065 | Greenhill, L. J. Kondratko, P.T. Braatz, J. A. Moran, J. M. | Harvard-Smithsonian Harvard University NRAO CfA | K. O'Neil J. A. Braatz | Detection of AGN in Apparently "Normal" Galaxies [L. J. Greenhill] | K | S | (9 10 13 14 19 20 21 22) | (75.75) |
| GBT02A-069 | Fisher, R. | NRAO Green Bank Facility | | Galaxy Survey of HI emission [R. Fisher] | L | SP | [6 7 8 9] | [20.50] |
| GBT02C-020 | Henkel, C. Balsler, D. Desmurs, J. F. Braatz, J. A. | Max-Planck-Institut fur Radioa NRAO - Green Bank Observatorio Astronomico Nacio NRAO | J. A. Braatz | A 6 GHz Survey of Extra-galactic OH Megamasers [C. Henkel] | C | S | 4 5 6 | 19.50 |
| GBT02C-045 | Kondratko, P.T. Greenhill, L. J. Moran, J. M. | Harvard University Harvard-Smithsonian CfA | K. O'Neil | Probing the AGN Environment in Moderate Velocity Active Galactic Nuclei (H2O) [P.T. Kondratko] | K | S | (7 14) | (13.00) |

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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| GBT02C-048 | Kondratko, P.T. Greenhill, L. J. Moran, J. M. Herrnstein, J. Garcia Miro, C. | Harvard University Harvard-Smithsonian CfA Renaissance Technology Madrid Deep Space Communication Complex, Spain | K. O'Neil | A Search for Very-High-Redshift Water Maser Emission [P.T. Kondratko] | CXU | S | (6 7 8 12 13 14) | (39.25) |
| GBT02C-058 | Stairs, I. Xilouris, K. Kramer, M. Backer, D. C. Cognard, I | University of British Columbia University of Virginia NRAL University of California, Berkeley CNRS-Orleans | F. D. Ghigo | Characterizing the Polarization Changes in an Intermediate-Mass Pulsar [I. Stairs] | 8L | BC | [21] | [1.25] |
| GBT02C-065 | Braatz, J. A. Henkel, C. Wilson, A. S. | NRAO Max-Planck-Institut fur Radioa University of Maryland | J. A. Braatz | A Search for Cosmologically Interesting H2O Megamasers [J. A. Braatz] | K | S | (17) | (4.50) |
| GBT03A-015 | Lane, W. Kanekar, N. Ellison, S.E. Chengalur, J. | Naval Research Lab Kapteyn Astronomical Institute European Southern Observatory NCRA (TIFR) | G. I. Langston | A Search for 21cm Absorption in High Redshift Damped Lyman-Alpha Absorbers [W. Lane] | 8 | P | [15 18] | [8.75] |
| GBT03A-016 | Stairs, I. Manchester, D.R. N. Lyne, A. G. | University of British Columbia Australia Telescope NRAL | G. I. Langston | The Physics of a Massive Pulsar System [I. Stairs] | L | BP | [19 22] | [4.50] |
| GBT03A-025 | Becker, W Lorimer, D. McLaughlin, M. Kramer, M. Camilo, F. Arzoumanian, Z. Weisskopf, M. Kanbach, G. | Max Planck Institut fuer extraterrestrische Physik University of Manchester University of Manchester NRAL Columbia Astrophysics Laboratory NASA/GSFC Marshall Space Flight Center Max Planck Institut fuer extraterrestrische Physik | G. I. Langston | A GBT search for the young neutron star in Gamma Cygni [W Becker] | 8 | BDS | 27 | 18.00 |
| GBT03B-015 | Ransom, S. Stairs, I. Kaspi, V. Hessels, J. W. T. Backer, D. C. | McGill University University of British Columbia McGill University McGill University University of California, Berkeley | G. I. Langston | Timing the Pulsars in the Globular Cluster M30 [S. Ransom] | LS | B | [19 22] | [8.00] |
| GBT03B-016 | Walsh, A. Myers, P. C. Zhang, Q. Di Francesco, J. Bourke, T. Wilner, D. | Harvard-Smithsonian Center for Astrophysics Center for Astrophysics Harvard-Smithsonian Center for Astrophysics National Research Council Canada | K. O'Neil | A Complete Picture of Cluster Formation in NGC 1333 [A. Walsh] | K | S | (16 17 18 20 21 23 24) | (33.75) |

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| | | Center for Astrophysics Center for Astrophysics | | | | | | |
| GBT03B-026 | Roberts, M. Hessels, J. W. T. Ransom, S. Kaspi, V. Tam, C.R. Livingstone, M. Backer, D. C. Crawford, F. | McGill University (Physics Dept) McGill University McGill University McGill University McGill McGill University of California, Berkeley Haverford College | | Timing of a Millisecond Pulsar Discovered in a Survey of Mid-Latitude EGRET Error Boxes [M. Roberts] | L8 | B | 14 | 1.00 |
| GBT03C-009 | Darling, J. | Carnegie Institution of Washington (Headquartes) | K. O'Neil A. Minter | A Direct Measurement of Fine Structure "Constant" Evolution from OH and HI Absorption Lines [J. Darling] | L8 | S | [13 14 16 17 18 19 20] | [101.25] |
| GBT03C-014 | Lovell, A. Schloerb, F. P. Howell, E. | Agnes Scott College University of Massachusetts Arecibo Observatory | R. Maddalena | OH Observations of Comet 2P/Encke [A. Lovell] | L | S | 1 5 6 | 25.50 |
| GBT03C-023 | Li, D. Goldsmith, P. F. Troland, T. H. Heiles, C. E. | Harvard-Smithsonian Center for Astrophysics Cornell University University of Kentucky University of California | G. I. Langston K. O'Neil | HI Narrow Self-Absorption: A New Tracer for Measuring The Magnetic Field in Dense Molecular Clouds [D. Li] | L | P | 1 2 3 | 11.75 |
| GBT03C-031 | Jacoby, B. Anderson, S. Kulkarni, S. R. Kaplan, D. Backer, D. C. | Caltech Astronomy Caltech Physics Caltech Caltech University of California, Berkeley | K. O'Neil | Timing the pulsars in M62, NGC 6544, and NGC 6624 and Search for Ultra-fast pulsars [B. Jacoby] | L8 | BS | [12 15] | [14.00] |
| GBT03C-041 | Ransom, S. Ramachandran, R. Kaspi, V. Demorest, P. Backer, D. C. Arons, J. | McGill University UC Berkeley (Astronomy) McGill University UC Berkeley (Physics) University of California, Berkeley UC Berkeley (Astronomy) | G. I. Langston | RRS Observations of the Double Binary Pulsar J0737-3039 [S. Ransom] | LS | B | [7 8 9 10 11] | [29.00] |
| Comm | Ghigo | | | Q band comm | Q | S | (24 26 27 30 31) | (45.50) |
| Shutdown | NRAO staff | | | Christmas Shutdown | | | 24 25 26 | 36.00 |
| Maint | NRAO staff | | | Maintenance | | | 2 3 4 8 9 10 11 16 17 18 23 30 31 | 116.00 |
| Maint | NRAO staff | | | Shutdown preparation | | | 24 | 2.00 |
| Maint | NRAO staff | | | Startup | | | 26 | 3.00 |

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| Not Sched | NRAO staff | | | | | | 10 15 28 31 (14) | 11.50 (2.50) |
| Setup | NRAO staff | | | Observation setup | SX8UKL6C | VSPBCD | 1 2 3 4 5 6 14 27 28 29 [6 8 9 10 11 12 13 14 15 16 17 18 19 21 22] (6 7 8 9 10 12 13 14 15 16 17 18 19 20 21 23 27 28 31) | 12.00 [23.00] (25.00) |
| Tests | Fisher | | | Baselines | X | S | (11 15) | (8.00) |
| Tests | Norrod | | | Baseline tests | KUX | S | 1 | 3.50 |
| Tests | TBD | | | General Tests/Comm | LCUXKU | D | (8 9) | (15.25) |
| Tests | Minter | | | M&C Reg tests | LCUSXK | DSP | 21 [18 19 22 23] | 4.25 [24.00] |
| Tests | Balser | | | PCO 2A41 | X | S | 4 5 7 [7] | 21.25 [5.00] |
| Tests | Prestage | | | PTCS Tests | LCUXKU | DSP | (11 12 15 16 18 19 22 23 29 30) | (109.50) |
| Tests | Ghigo | | | RCO K & Q | KQ | S | (7 11) | (12.25) |
| Tests | Braatz | | | RCO K band | K | S | 1 2 3 | 19.00 |
| Tests | ? | | | RCO*4 | 4 | PD | 31 | 3.25 |
| Tests | Ghigo | | | RCO*6 | 6 | BDPS | 2 | 3.50 |
| Tests | O'Neil | | | Spigot tests | L8 | BGS | [21] | [5.25] |
| Total Hrs | Shutdown | 36.00 | | | | | | |
| | Astronomy | 290.75 | 222.75 | | | | | |
| | Setup | 37.00 | 23.00 | | | | | |
| | Commissioning | 45.50 | | | | | | |
| | Maintenance | 121.00 | | | | | | |
| | Un-assigned | 14.00 | | | | | | |
| | Tests | 199.75 | 34.25 | | | | | |

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