

# GBT Observing Schedule for October 2009

| Proposal   | Investigators                                                                                                                                                                     | Institute                                                                                                                                                                               | NRAO Friend   | Title                                                                          | Bands | Back Ends | Days *                  | Hrs *   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------|-------|-----------|-------------------------|---------|
| 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         | (3 5 13 14 18 19 26 27) | (68.00) |
| BB277      | Brunthaler, A.<br>Reid, M. J.<br>Henkel, C.<br>Menten, K. M.<br>Falcke, H.<br>Bower, G. C.                                                                                        | MPIfR<br>Center for Astrophysics<br>Max-Planck-Institut fur Radioa<br>Max-Planck-Institut Fur Radioa<br>ASTRON<br>UC Berkeley                                                           | Jules Harnett | The evolution of SN 2008iz in M82 [A. Brunthaler]                              | C     | 5         | 2                       | 12.50   |
| BM311      | Maccarone, T.<br>Gallo, E.<br>Miller-Jones, J.<br>Joseph, Tania<br>Dwelly, T.                                                                                                     | U Southampton<br>UC Santa Barbara<br>Oxford<br>University of Southampton<br>MSSL, UCL                                                                                                   | Jules Harnett | An accurate position for the radio source in G1 [T. Maccarone]                 | C     | 5         | 6 7                     | 7.50    |
| BP157      | Peterson, W.<br>Mutel, R. L.<br>Goss, W. M.                                                                                                                                       | University of Iowa<br>NRAO-SOC                                                                                                                                                          | Jules Harnett | Confirmation of Large Coronal Loops on an RS CVN Binary [W. Peterson]          | U     | 5         | 14 15 17 18             | 21.50   |
| GBT07C-016 | Kanekar, N.                                                                                                                                                                       | NRAO-AOC                                                                                                                                                                                | Jim Braatz    | Using NH3 lines to probe changes in fundamental constants [N. Kanekar]         | U     | S         | 1                       | 1.50    |
| 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. Camilo]                   | S     | G         | 7                       | 3.75    |
| 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.<br>Impellizzeri, C.M.V. | NRAO - CV<br>NRAO-CV<br>CfA<br>Max-Planck-Institut fur Radioa<br>NRAO-CV<br>Center for Astrophysics<br>ASIAA<br><br>Johns Hopkins<br>Cornell Dept. of Astronomy<br>NRAO                 | Jim Braatz    | The Megamaser Cosmology Project: Year 2 [J. A. Braatz]                         | K     | S         | 8 9                     | 36.00   |
| GBT09A-034 | Garcia-Marin, M.<br>Eckart, A.<br>Koenig, S.                                                                                                                                      | University of Cologne                                                                                                                                                                   | Jules Harnett | 21 cm HI Observations of intermediate-z Clusters of Galaxies [M. Garcia-Marin] | A     | S         | 1                       | 5.50    |

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

\* [ ] 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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|            | Fischer, S.<br>Zuther, J.<br>Huchtmeier, W. K.<br>Bertram, T.                                                                                                                                                           | Max-Planck-Institut fur Radioa                                                                                                                                                                                                                                                                               |               |                                                                                        |       |           |        |       |
| GBT09A-055 | Stocke, J. T.<br>Darling, J.<br>Yan, T.                                                                                                                                                                                 | University of Colorado<br>Colorado at Boulder, University of                                                                                                                                                                                                                                                 | Jules Harnett | A New Approach to Discovering Highly Obscured Radio-Loud Quasars [J. Darling]          | A     | S         | 1      | 1.00  |
| GBT09B-005 | Stocke, J. T.<br>Darling, J.<br>Yan, T.                                                                                                                                                                                 | University of Colorado<br>Colorado at Boulder, University of                                                                                                                                                                                                                                                 | Jules Harnett | A Search for HI Absorption Toward Red AGN in Non-Elliptical Host Galaxies [J. Darling] | A     | S         | 1 13   | 3.00  |
| GBT09B-006 | Camilo, F.<br>Ransom, S.<br>Chatterjee, S.<br>Ray, P.S.<br>Lorimer, D.                                                                                                                                                  | Columbia Astrophysics Laboratory<br>NRAO - CV<br>Center for Astrophysics<br>Naval Research Lab<br>West Virginia University                                                                                                                                                                                   | Scott Ransom  | Three newly discovered pulsars [F. Camilo]                                             | S     | U         | 12     | 1.25  |
| GBT09B-017 | Deneva, J.<br>Cordes, J. M.<br>Lazio, T.J.W.                                                                                                                                                                            | Cornell University<br>NAIC and Cornell University<br>Naval Research Laboratory                                                                                                                                                                                                                               | Scott Ransom  | Are the Arches and Quintuplet Clusters Pulsar Nurseries? [J. Deneva]                   | C     | G         | 1      | 2.00  |
| GBT09B-029 | 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.<br>Perera, B.                               | 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     | YB        | 17     | 5.50  |
| GBT09B-031 | Lynch, R.<br>Ransom, S.<br>Lorimer, D.<br>McLaughlin, M.<br>Stairs, I.<br>Kaspi, V.<br>Cordes, J. M.<br>Champion, D.<br>Archibald, A.<br>Kondratiev, V.<br>Boyles, J.<br>Hessels, J. W. T.<br>McPhee, C.<br>Roberts, M. | Virginia, University of<br>NRAO - CV<br>West Virginia University<br>WVU<br>University of British Columbia<br>McGill University<br>NAIC and Cornell University<br>McGill University<br><br>West Virginia University<br>West Virginia University<br>ASTRON<br><br>Eureka Scientific, Inc.                      | Scott Ransom  | Timing the New GBT 350 MHz Drift Scan Pulsars [R. Lynch]                               | 8     | U         | 16 17  | 4.50  |

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|            | Kasian, L.<br>van Leeuwen, J.<br>Deneva, J.                                                                                             | University of British Columbia<br>University of British Columbia<br>Cornell University                                                                                                             |              |                                                                                                     |       |           |                 |        |
| GBT09B-041 | Demorest, P.<br>Nice, D.<br>Stairs, I.<br>Ransom, S.<br>Ferdman, R.<br>Lommen, A.<br>Backer, D. C.<br>Gonzalez, M.                      | UC Berkeley (Physics)<br>Bryn Mawr College<br>University of British Columbia<br>NRAO - CV<br>University of British Columbia<br>Franklin and Marshall College<br>University of California, Berkeley | Scott Ransom | Detecting nHz Gravitational Radiation using a Pulsar Timing Array [P. Demorest]                     | L8    | YU        | 16 18           | 17.00  |
| GBT09B-043 | DeCesar, M.<br>Ransom, S.<br>Stairs, I.<br>Lorimer, D.<br>McLaughlin, M.<br>Kaspi, V.<br>Archibald, A.<br>van Leeuwen, J.<br>Miller, C. | NRAO - CV<br>University of British Columbia<br>West Virginia University<br>WVU<br>McGill University<br><br>University of British Columbia<br>University of Maryland                                | Scott Ransom | A Search for Radio Pulsations from Low-Mass X-ray Binaries [M. DeCesar]                             | S     | U         | 1               | 2.00   |
| GBT09C-008 | Rood, R. T.<br>Bania, T. M.<br>Balser, D.S.                                                                                             | University of Virginia<br>Boston University<br>NRAO - Green Bank                                                                                                                                   | Dana Balser  | Constraining Galactic Chemical Evolution: 3-Helium Benchmark Abundances in S209 - copy [R. T. Rood] | X     | DS        | 11 12           | 10.00  |
| GBT09C-014 | Camilo, F.<br>Ransom, S.<br>Gaensler, B.M.<br>Lorimer, D.                                                                               | Columbia Astrophysics Laboratory<br>NRAO - CV<br>CFA<br>West Virginia University                                                                                                                   | Scott Ransom | The energetic pulsar J1747-2809 in the supernova remnant G0.9+0.1 [F. Camilo]                       | S     | U         | 11 12 14 25     | 8.75   |
| GBT09C-086 | Arzoumanian, Z.<br>Ransom, S.                                                                                                           | NASA/GSFC<br>NRAO - CV                                                                                                                                                                             | Scott Ransom | Followup of the GBT's discovery of a 24 ms pulsar in SNR G76.9+1.0 [Z. Arzoumanian]                 | S     | U         | 10 11           | 12.00  |
| GLST021284 | Camilo, F.<br>Ransom, S.<br>Roberts, M.<br>McLaughlin, M.                                                                               | Columbia Astrophysics Laboratory<br>NRAO - CV<br>Eureka Scientific, Inc.<br>WVU                                                                                                                    | Scott Ransom | GREEN BANK TELESCOPE TIMING OF KEY FERMI PULSARS [F. Camilo]                                        | S8    | UG        | 2 16 31         | 13.25  |
| Maint      | NRAO staff                                                                                                                              |                                                                                                                                                                                                    |              | Maintenance                                                                                         |       |           | 1 7 13 14 28 29 | 53.00  |
| Maint      | NRAO staff                                                                                                                              |                                                                                                                                                                                                    |              | Open Day                                                                                            | S     | S         | 25              | 3.00   |
| Maint      | NRAO staff                                                                                                                              |                                                                                                                                                                                                    |              | Turret upgrade                                                                                      |       |           | 19 20 21 22 23  | 105.50 |
| Tests      | Harris                                                                                                                                  |                                                                                                                                                                                                    |              | BZ tests                                                                                            | B     | Z         | 7               | 3.00   |
| Tests      | Ransom                                                                                                                                  |                                                                                                                                                                                                    |              | GUPPI                                                                                               | S     |           | 23              | 4.00   |

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| Tests     | Hunter        |           |             | HOLO            | X     |           | 24      | 6.00  |
| Tests     | Langston      |           |             | KFPA pointing   | B     |           | 27      | 8.00  |
| Tests     | Langston      |           |             | Ka/CCB pointing | B     |           | 26      | 2.00  |
| Tests     | Minter        |           |             | RCO             | K84   |           | 7 14 28 | 4.50  |
| Tests     | Minter        |           |             | Shutdown        | L     |           | 19      | 1.00  |
| Tests     | Minter        |           |             | Startup         | L     |           | 23      | 2.00  |
| Total Hrs | Astronomy     | 236.50    |             |                 |       |           |         |       |
|           | Maintenance   | 161.50    |             |                 |       |           |         |       |
|           | Un-assigned   |           |             |                 |       |           |         |       |
|           | Tests         | 30.50     |             |                 |       |           |         |       |

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