

# GBT Observing Schedule for September 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         | 4 7 18 25 26 | 34.00 |
| BM306      | Mioduszewski, A.<br>Torres, R.M.<br>Loinard, L.   | NRAO - SOC<br>UNAM<br>Instituto de Astronomia (UNAM,<br>Morelia, Mexico)   | Frank Ghigo   | Imaging the interacting young binary V773 Tau A/B [A.<br>Mioduszewski]                   | X     | 5         | 27           | 6.50  |
| 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<br>Binary [W. Peterson]                 | U     | 5         | 14 15        | 10.50 |
| GBT04A-003 | Curran, S.<br>Whiting, M.<br>Webb, J.<br>Murphy, M. T.<br>Pihlstrom, Y.<br>Wiklund, T.<br>Francis, P. | University of New South Wales<br>Australia Telescope National<br>Facility<br>University of New South Wales<br>Cambridge, University of<br>UNM<br>Space Telescope Science Institute<br>Australian National University | Carl Bignell  | Highly Redshifted HI and OH Absorption in Red Quasars<br>[S. Curran]                     | A     | SP        | 28           | 2.75  |
| GBT07A-051 | Hollis, J. M.<br>Remijan, A.<br>Jewell, P. R.<br>Lovas, F. J.   | NASA/GSFC<br>National Radio Astronomy<br>Observatory<br>NRAO-CV<br>Nat'l Instit. of Standards and<br>Technology  | Tony Remijan  | A GBT Legacy Survey of Prebiotic Molecules Toward<br>SgrB2(N-LMH) and TMC-1 [A. Remijan] | C     | S         | 12           | 6.00  |
| GBT08A-004 | Curran, S.<br>Darling, J.<br>Whiting, M.<br>Bolatto, A.<br>Webb, J.<br>Bignell, R.C.                  | University of New South Wales<br>Colorado at Boulder, University of<br>Australia Telescope National<br>Facility<br>University of California at Berkeley<br>University of New South Wales<br>NRAO - GB                | Carl Bignell  | OH Absorption In the Lensing and Host Galaxies of<br>J0414+0534 [S. Curran]              | 4     | S         | 9 13 16      | 12.25 |
| GBT08B-005 | Campbell, B.<br>Campbell, D. B.<br>Carter, L.<br>Ghent, R.<br>Nolan, M                                | Smithsonian Institute<br>Cornell University<br>Smithsonian Institution<br>Smithsonian Institution<br>Arecibo Observatory   | Frank Ghigo   | High-Resolution 12.6-cm Radar Mapping of the Nearside<br>of the Moon [B. Campbell]       | S     | X         | 12 13 14     | 11.00 |
| GBT08B-026 | Minter, A.<br>Dennison, B. K.<br>Dickens, L.  | NRAO - Green Bank<br>Virginia Polytechnic Institute  | Toney Minter  | The H 2p-2s fine-structure line toward HII Regions and<br>Planetary Nebulae [A. Minter]  | X     | S         | 2            | 4.00  |
| GBT08C-014 | Camilo, F.<br>Ransom, S.<br>Halpern, J. P.<br>Reynolds, J. E.   | Columbia Astrophysics Laboratory<br>NRAO - CV<br>Columbia University<br>Australia Telescope National F   | Scott Ransom  | Studying the magnetar XTE J1810-197 [F. Camilo]  | SXC   | G         | 7 22 29      | 4.50  |

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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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| 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]                   | S8    | GB        | 5 6 18 19 | 9.25  |
| GBT08C-049 | Lynch, R.<br>Ransom, S.<br>Freire, P.<br>Stairs, I.  | Virginia, University of<br>NRAO - CV<br>Arecibo Observatory<br>University of British Columbia   | Scott Ransom  | Timing of Newly Discovered MSPs in the Globular Cluster NGC6517 [R. Lynch]     | S     | U         | 10        | 6.00  |
| GBT08C-065 | Wolfe, A. M.<br>Jorgenson, R.<br>Robishaw, T.<br>Heiles, C. E.<br>Prochaska, J.  | University of California-San D<br>University of California at San Diego<br>University of California at Berkeley<br>University of California<br>University of California                 | Toney Minter  | Search for Zeeman Splitting at High Redshift [A. M. Wolfe]                     | 4     | P         | 10 12 13  | 13.25 |
| GBT09A-002 | Anderson, L.<br>Bania, T. M.<br>Balsler, D.S.<br>Rood, R. T.   | Boston University<br>NRAO - Green Bank<br>University of Virginia  | Dana Balsler  | Discovering Milky Way HII Regions [L. Anderson]                                | X     | DS        | 9 10 14   | 7.50  |
| GBT09A-004 | Gupta, N.<br>Srianand, R.<br>Petitjean, P.<br>Noterdaeme, P.   | Tata Institute of Fundamental Research<br>Inter-University Centre for As<br>Institut d'Astrophysique<br>European Southern Observatory   | Jules Harnett | Search for HI 21cm absorption in a complete sample of DLAs at z>2. [N. Gupta]  | 3     | P         | 6         | 7.00  |
| GBT09A-025 | Kanekar, N.  | NRAO-AOC  | Jules Harnett | The spin temperature of high redshift damped Lyman-alpha systems [N. Kanekar]  | 4     | P         | 13        | 3.25  |
| GBT09A-034 | Garcia-Marin, M.<br>Eckart, A.<br>Koenig, S.<br>Fischer, S.<br>Zuther, J.<br>Huchtmeier, W. K.<br>Bertram, T.                              | University of Cologne<br><br><br><br>Max-Planck-Institut fur Radioa   | Jules Harnett | 21 cm HI Observations of intermediate-z Clusters of Galaxies [M. Garcia-Marin] | A     | S         | 29 30     | 6.00  |
| GBT09A-046 | Chynoweth, K.<br>Langston, G. I.<br>Holley-Bockelmann, K.  | NRAO-GB   | Glen Langston | A Search for Faint Extended HI in Nearby Galaxy Groups - copy [K. Chynoweth]   | L     | S         | 1 2       | 2.00  |
| GBT09A-081 | Kondratiev, V.<br>Lorimer, D.  | West Virginia University<br>West Virginia University  | Scott Ransom  | A search for giant pulses in interpulse pulsars [V. Kondratiev]                | 3     | G         | 3 4       | 3.25  |

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|            | McLaughlin, M.  | WVU   |               |   |       |           |             |       |
| GBT09B-001 | Bania, T. M.<br>Balsler, D.S.<br>Anderson, L.<br>Rood, R. T.  | Boston University<br>NRAO - Green Bank<br>University of Virginia  | Dana Balsler  | Searching for Star Formation in the 3 kpc Arm [T. M. Bania]                               | X     | SD        | 11 12       | 7.50  |
| GBT09B-002 | Anderson, L.<br>Bania, T. M.<br>Balsler, D.S.<br>Rood, R. T.  | Boston University<br>NRAO - Green Bank<br>University of Virginia  | Dana Balsler  | Discovering Milky Way HII Regions [L. Anderson]   | X     | DS        | 14 30       | 6.25  |
| GBT09B-003 | Crawford, F.<br>Lorimer, D.<br>McLaughlin, M.<br>Faulkner, A.<br>Kramer, M.<br>Lyne, A. G.<br>Stairs, I.<br>Camilo, F.<br>Burgay, M.<br>Possenti, A.<br>D'Amico, N.<br>Gilpin, C. | Haverford College<br>West Virginia University<br>WVU<br>University of Manchester<br>Jodrell Bank<br>Manchester, University of<br>University of British Columbia<br>Columbia Astrophysics Laboratory<br>Istituto Nazionale di Astrofisica<br>Istituto Nazionale di Astrofisica<br>Osservatorio di Cagliari | Scott Ransom  | On the Trail of the Enigmatic Millisecond Binary Pulsar PSR J1723-28 [F. Crawford]        | 3S    | U         | 2 27        | 8.00  |
| GBT09B-004 | Gwinn, C. R.<br>Johnson, M.<br>Minter, A.<br>Demorest, P.<br>Kondratiev, V.<br>Smirnova, T.   | University of California, Sant<br>NRAO - Green Bank<br>UC Berkeley (Physics)<br>West Virginia University  | Toney Minter  | Noise and Signal in Pulsar Scintillation [C. R. Gwinn]                                    | 3     | OYM       | 5           | 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         | 13          | 1.25  |
| GBT09B-008 | Rubio-Herrera, E<br>Stappers, B.<br>Hessels, J. W. T.   | University of Manchester<br>ASTRON  | Scott Ransom  | Confirmation of Radio Pulsar Candidates in M31 [E Rubio-Herrera]                          | 3     | G         | 4 5 6 7     | 9.25  |
| GBT09B-012 | Rudnick, L.<br>Farnsworth, D.<br>Brown, S.  | University of Minnesota<br>University of Minnesota<br>University of Minnesota   | Jules Harnett | Relativistic Probes of the WHIM (redux) [L. Rudnick]                                      | L     | S         | 1 2 3       | 7.25  |
| GBT09B-013 | Aravena, M.<br>Wagg, J.<br>Wilner, D.<br>Menten, K. M.<br>Carilli, C. L.  | NRAO - Soc<br>Center for Astrophysics<br>Max-Planck-Institut Fur Radioa<br>NRAO - Socorro<br>Harvard-Smithsonian Center for   | Toney Minter  | A search for luminous H2O maser emission in lensed, FIR luminous QSOs at z~4 [M. Aravena] | C     | S         | 3 5 7 10 25 | 18.58 |

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|            | Humphreys, E.M.L.   | Astrophysics   |              |   |       |           |           |       |
| GBT09B-014 | Edel, S.<br>Ludovici, D.<br>Lorimer, D.<br>McLaughlin, M.<br>Kondratiev, V.<br>Boyles, J.<br>Ridley, J. | West Virginia University<br>WVU<br>West Virginia University<br>West Virginia University                                | Scott Ransom | GBT radio monitoring of magnetars [S. Edel]   | S     | U         | 13        | 5.25  |
| GBT09B-015 | Armijos, J.<br>Martin-Pintado, J.<br>Requena-Torres, M.A.<br>Martín, S.<br>Rodríguez-Franco, A.         | Consejo Superior de Investigaciones (CSIC)<br>Consejo Superior de Investigaciones (CSIC)<br>DAMIR-IEM-CSIC             | Jim Braatz   | Chemical complexity in the nuclei of galaxies. The nucleus of the Milky way [J. Armijos]    | U     | S         | 1 14 19   | 12.00 |
| 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         | 7 8 28 30 | 9.25  |
| GBT09B-018 | Deneva, J.<br>Cordes, J. M.<br>Lazio, T.J.W.  | Cornell University<br>NAIC and Cornell University<br>Naval Research Laboratory   | Scott Ransom | Two Very Dispersed Pulsars Near SgrA*: Continued Timing and Spectrum Estimation [J. Deneva] | SU    | G         | 3 15      | 5.25  |
| GBT09B-023 | Ray, P.S.<br>Camilo, F.<br>Ransom, S.<br>Roberts, M.  | Naval Research Lab<br>Columbia Astrophysics Laboratory<br>NRAO - CV<br>Eureka Scientific, Inc.                         | Scott Ransom | Search for Radio Pulsations from Gamma-Ray Pulsars Discovered with Fermi [P.S. Ray]         | 8     | U         | 22 23     | 3.25  |
| GBT09B-024 | Ransom, S.<br>Camilo, F.<br>Ray, P.S.<br>Roberts, M.  | NRAO - CV<br>Columbia Astrophysics Laboratory<br>Naval Research Lab<br>Eureka Scientific, Inc.                         | Scott Ransom | Searching for Radio Pulsars in Fermi Bright Unidentified Sources [S. Ransom]                | 8     | U         | 19 20     | 9.50  |
| GBT09B-025 | Kudo, N.<br>Torii, K.<br>Fukui, Y.<br>Morris, M. R.   | Nagoya University<br>UCLA  | Jim Braatz   | An OH Absorption Line Survey of the Galactic Scale Molecular Loops [N. Kudo]                | L     | S         | 5         | 2.00  |
| GBT09B-026 | Demorest, P.<br>Walker, M.A.<br>van Straten, W.<br>Karastergiou, Aris                                   | UC Berkeley (Physics)<br>Research Centre for Theoretica<br>Brownsville, University of Texas at<br>University of Oxford | Scott Ransom | Cyclic Spectroscopy of Three Pulsars [P. Demorest]  | 3     | Y         | 3         | 4.00  |
| GBT09B-028 | McLaughlin, M.<br>Lyne, A. G.<br>Kramer, M.<br>Miller, J.<br>Lorimer, D.<br>Keane, E.                   | WVU<br>Manchester, University of<br>Jodrell Bank<br>West Virginia University   | Scott Ransom | Timing of New and Old Rotating Radio Transient Sources [M. McLaughlin]                      | 3     | U         | 4         | 6.25  |

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| 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<br>[M. Kramer]        | L8    | YB        | 19 25    | 13.00 |
| 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.<br>Kasian, L.<br>van Leeuwen, J.<br>Deneva, J. | 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>West Virginia University<br>West Virginia University<br>ASTRON<br>Eureka Scientific, Inc.<br>University of British Columbia<br>University of British Columbia<br>Cornell University | Scott Ransom  | Timing the New GBT 350 MHz Drift Scan Pulsars [R. Lynch]                        | 8     | U         | 19 20 21 | 4.75  |
| GBT09B-034 | Chynoweth, K.<br>Langston, G. I.<br>Holley-Bockelmann, K.  | NRAO-GB   | Glen Langston | Deep Observations of Possible HVC Analogs in the NGC 2403 Group [K. Chynoweth]  | L     | S         | 1        | 5.25  |
| GBT09B-036 | Gao, Y.<br>Riechers, D.<br>Carilli, C. L.<br>Wagg, J.  | Chinese Academy of Sciences<br>Max-Planck-Institute for Astronomy, Heidelberg<br>NRAO - Socorro<br>NRAO - Soc   | Ron Maddalena | CS(1-0) survey of dense gas at high-redshift [Y. Gao]                           | UX    | S         | 9 18 27  | 18.25 |
| GBT09B-040 | Kanekar, N.<br>Wagg, J.<br>Carilli, C. L.  | NRAO-AOC<br>NRAO - Soc<br>NRAO - Socorro  | Ron Maddalena | A search for CS 1-0 emission at high redshifts [N. Kanekar]                     | U     | S         | 23       | 2.75  |
| GBT09B-041 | Demorest, P.<br>Nice, D.<br>Stairs, I.   | UC Berkeley (Physics)<br>Bryn Mawr College<br>University of British Columbia  | Scott Ransom  | Detecting nHz Gravitational Radiation using a Pulsar Timing Array [P. Demorest] | L8    | YU        | 20 26    | 17.00 |

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|            | Ransom, S.<br>Ferdman, R.<br>Lommen, A.<br>Backer, D. C.<br>Gonzalez, M.  | NRAO - CV<br>University of British Columbia<br>Franklin and Marshall College<br>University of California, Berkeley  |               |   |       |           |                                  |       |
| GBT09B-042 | Joncas, G.<br>Robitaille, J.<br>Lockman, F. J.<br>Marshall, D.<br>Miville-Deschenes, M.<br>Martin, P.G.                                 | Universite Laval<br><br>NRAO-GB<br><br>IAS Univ. Paris-Sud<br>University of Toronto   | Jay Lockman   | Establishing a scenario of molecule formation from high Galactic latitude sites [G. Joncas]       | L     | S         | 5 6 8 11 19 20<br>21 22 23 24 28 | 41.50 |
| 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         | 2 7 25                           | 4.00  |
| GBT09B-044 | Smith, A.<br>Greaves, J.<br>Jardine, M.<br>Cameron, A.<br>Langston, G. I.<br>Backer, D. C.  | Univ. St. Andrews<br>University of St Andrews<br>NRAO-GB<br>University of California, Berkeley  | Glen Langston | Cyclotron emission from the exo-planet HD 189733b - copy [A. Smith]                               | 3     | M         | 6 8 9                            | 11.00 |
| GBT09B-045 | Lynch, R.<br>Ransom, S.   | Virginia, University of<br>NRAO - CV  | Scott Ransom  | Searching For New Pulsars in Eight Low Metallicity Globular Clusters [R. Lynch]                   | S     | U         | 7 9 17 18 21 22                  | 13.25 |
| GBT09B-046 | Impellizzeri, C.M.V.<br>Henkel, C.<br>Roy, A. L.<br>Braatz, J. A.<br>Leurini, S.<br>Menten, K. M.                                       | NRAO<br>Max-Planck-Institut fur Radioa<br>MPIfR<br>NRAO - CV<br>MPIfR<br>Max-Planck-Institut Fur Radioa   | Jim Braatz    | Tracing the Physical Conditions in NGC 3079 and Mrk 348 with Methanol [C.M.V. Impellizzeri]       | U     | S         | 19                               | 2.75  |
| GBT09B-055 | Kaspi, V.<br>Archibald, A.<br>Haw Far Chin, J.  | McGill University   | Scott Ransom  | Target-of-Opportunity Observations of an unusual Periodic Gamma-Ray Burst [V. Kaspi]              | 3     | G         | 5                                | 2.00  |
| GBT09C-002 | Gupta, N.<br>Srianand, R.<br>Petitjean, P.<br>Petitjean, P.   | Tata Institute of Fundamental Research<br>Inter-University Centre for As<br>Institut d'Astrophysique<br>Institut d'Astrophysique                                    | Jules Harnett | Search for 21cm absorption at $0.6 < z < 1.0$ using optimally selected MgII absorbers. [N. Gupta] | 8     | P         | 16 17 25                         | 13.92 |

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| GBT09C-004 | Curran, S.<br>Whiting, M.<br>Webb, J.<br>Bignell, R.C.  | University of New South Wales<br>Australia Telescope National<br>Facility<br>University of New South Wales<br>NRAO - GB   | Carl Bignell | A Search for Cold Neutral Gas in Dim Radio Galaxies and Quasars I [S. Curran]                    | 4     | S         | 11 12   | 4.50   |
| 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]                    | C     | U         | 12 13   | 2.00   |
| GBT09C-057 | Ransom, S.<br>Lorimer, D.<br>McLaughlin, M.<br>Stairs, I.<br>Kaspi, V.<br>Roberts, M.<br>Lynch, R.<br>van Leeuwen, J.<br>van Leeuwen, J.<br>Kondratiev, V.<br>Boyles, J.<br>Hessels, J. W. T.<br>Archibald, A.<br>Jenet, F. | NRAO - CV<br>West Virginia University<br>WVU<br>University of British Columbia<br>McGill University<br>Eureka Scientific, Inc.<br>Virginia, University of<br>University of British Columbia<br>University of British Columbia<br>West Virginia University<br>West Virginia University<br>ASTRON | Scott Ransom | A 350-MHz Pulsar Survey of the Northern Celestial Cap [S. Ransom]                                | 3     | U         | 4 6 8   | 11.50  |
| GBT09C-076 | Kondratiev, V.<br>Otte, N.<br>Lyutikov, M.  | West Virginia University<br>McGill University   | Scott Ransom | Crab Pulsar Giant Pulses: Is Correlation Between Radio and VHE Bands Real? [V. Kondratiev]       | X     | U         | 30  | 4.00   |
| GLST021302 | McLaughlin, M.<br>Lyutikov, M.<br>Ransom, S.<br>Kondratiev, V.<br>Bilous, A.<br>Langston, G. I.<br>Stappers, B.<br>Lorimer, D.<br>Mickaliger, M   | WVU<br>McGill University<br>NRAO - CV<br>West Virginia University<br>NRAO-GB<br>University of Manchester<br>West Virginia University  | Scott Ransom | CONSTRAINING PULSAR EMISSION PHYSICS THROUGH RADIO/GAMMA-RAY CORRELATION OF CRAB [M. McLaughlin] | C     | YU        | 9 12 14 16 19<br>20 21 22 23 24<br>25 28            | 30.00  |
| Maint      | NRAO staff  |   |              | Maintenance PF1 down (GA)  |       |           | 28  | 10.50  |
| Maint      | NRAO staff  |   |              | Maintenance  |       |           | 1 2 3 8 9 10 11<br>14 15 16 17 21<br>22 23 24 29 30 | 165.00 |
| Tests      | Ransom & White  |   |              | GUPPI  |       |           | 26  | 3.50   |
| Tests      | Ghigo   |   |              | GainCal  |       | S         | 15 16 17  | 7.75   |

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

# GBT Observing Schedule for September 2009

| Proposal  | Investigators | Institute | NRAO Friend | Title       | Bands | Back Ends | Days *      | Hrs * |
|-----------|---------------|-----------|-------------|-------------|-------|-----------|-------------|-------|
| Tests     | HUnter        |           |             | HOLO        |       |           | 10 11 22 23 | 11.50 |
| Tests     | Hunter Ghigo  |           |             | HalfPower   |       |           | 27 28       | 2.25  |
| Tests     | Shelton       |           |             | M&C Int     |       |           | 24 29       | 8.00  |
| Tests     | Shelton       |           |             | M&C Integ   |       |           | 21 23 24    | 7.50  |
| Tests     | Shelton       |           |             | M&C Reg     |       |           | 26 27       | 6.00  |
| Tests     | Hunter Ghigo  |           |             | OOF         |       |           | 29          | 3.50  |
| Tests     | Hunter Ghigo  |           |             | Pointing    | B     | S         | 17 18       | 8.00  |
| Tests     | NRAO staff    |           |             | RCO*3       | PF1*3 | S         | 2           | 1.50  |
| Tests     | NRAO staff    |           |             | RCO*4       | PF1*4 | S         | 8           | 1.50  |
| Tests     | NRAO staff    |           |             | RCO*8       | PF1*8 | S         | 16          | 1.75  |
| Tests     | NRAO staff    |           |             | RCO*A       | A     | S         | 28          | 1.75  |
| Tests     | Minter        |           |             | Scal        |       | S         | 5           | 3.25  |
| Tests     | Ransom        |           |             | Tests GUPPI |       |           | 7 24 25     | 7.50  |
| Total Hrs | Astronomy     | 468.25    |             |             |       |           |             |       |
|           | Maintenance   | 175.50    |             |             |       |           |             |       |
|           | Un-assigned   |           |             |             |       |           |             |       |
|           | Tests         | 75.25     |             |             |       |           |             |       |

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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