

CHARA Array 2021A Observing Proposal Summary

| Program Number | PI | Co-I's | Title | Dates Assigned |
|-------------------------------|----------------|---|---|---|
| CHARA Classic Programs | | | | |
| C1 | Flores | White, Schaefer, Farrington | Stellar radii of stars with dynamically determined masses | Apr 24-27(1/2), June 29-30 |
| C2 | Anderson | Baron, Kishimoto | On-sky adaptive optics testing observing NGC 4151 | Mar 16-22 |
| C3/P4/NOIR4 | Ellis | Boyajian, von Braun | Radii of late type-dwarf, exoplanet hosts, and exoplanet host candidates | Mar 6-9 |
| C4/P5/NOIR5 | Boyajian | von Braun, Ellis | Diameters and Temperatures of Main Sequence FG stars | Mar 10, 11 (1/2), 12-13 |
| C5/NOIR11 | Kishimoto | Antonucci, Hoenig, Millour, Tristram, Weigelt | AGN torus: dissecting the dusty wind launching region | Apr 24-28(1/2) |
| MIRC Programs | | | | |
| M1 | Labdon | Kraus, Monnier, Le Bouquin, Anugu, Setterholm | Follow-up J-band observations of YSOs with MIRC-X | June 17(1/2), 18, 19(1/2) |
| M2 | Abbott | Konstantinova-Antova, Tsvetkova, Georgiev, Baron, Paladini, Lebre, Morin | Imaging the surface features of AGB star EK Boo | May 18 |
| M3 | Anugu | Schaefer, Jones, Kraus, Monnier, Klement, Rajagopal, Mahadevan | Measuring the limb darkening of the brightest M-dwarf in the northern sky | Mar 2, 4, Apr 21(1/2), 23(1/2) |
| M4 | Gardner | Monnier, Le Bouquin, Ireland | MIRC-X Astrometry of substellar companions in close binary systems | Mar 29-31, Apr 12-14, May 6(1/2), 7-8, 9(1/2), June 9-11, July 12-14 |
| M5 | Klement | Schultz, David-Uraz, Baron, Schaefer, Carciofi | Deneb: uncovering the stellar surface and circumstellar wind structure | July 4(1/2), 5, 6, 7(1/2) |
| M6 | Klement | Schaefer, Monnier, Gies, Wysocki, Rivinius, Baade | A MIRC-X Survey: are all classical Be stars close binaries? | May 19, 21-22(1/2), 29-30(1/2), 31, July 1(1/2), 2-3, 4(1/2) |
| M7 | Kraus | Monnier, Le Bouquin, Davies, Kreplin, Setterholm, Labdon, Anugu, ten Brummelaar, Ibrahim | The MIRC-X + MYSTIC Large Program on imaging time-variable structures in protoplanetary disks | May 9(1/2), 10-12, 13(1/2), 14-15, June 21(1/2), 22, 23(1/2), 25-26(1/2), 27-28 |
| M8 | Kraus | Monnier, Le Bouquin, Davies, Anugu, Kreplin, Labdon | Resolving stellar orbits and disk alignments in pre-main-sequence binary systems | May 16-17, June 19(1/2), 20, 21(1/2) |
| M9 | Lanthermann | Sana, Le Bouquin, Schaefer, Gies, Gosset, Bordier, Frost, Mahy, De Becker, Absil, Reggiani | Northern Massive Stars at High Angular Resolution | July 7-8(1/2), 9-11 |
| M10 | Lester | Farrington, Gardner, Gies, Monnier, Schaefer | Visual orbits of spectroscopic binaries | Mar 23 (1/2), 24, 25(1/2), 26-27 |
| M12 | Norris | Abbott, Baron, Kravchenko, Martinez, Tessore, Chivassa, Lebre, Lopez-Ariste, Monnier, Montarges, Paladini, Van Eck | Long-term monitoring of the short term evolution of the surface of red supergiants | May 20-23(1/2), June 23-26(1/2), July 30-31 |
| M13 | Schaefer | Prato, Simon | Dynamical masses of pre-main sequence stars | Apr 8, 15, 22 (1/2) |
| M14 | Setterholm | Monnier, Le Bouquin, Kraus, Anugu, Labdon | MIRC-X YSO Polarimetry | June 3-8 |
| M15 | Shepard | Gies, Schaefer | Circumbinary disks around massive interacting binary stars | July 23-27 |
| M17/NOIR1 | Evans | Gallenne, Kervella, Merand, Bond | The Dynamical Mass of Polaris, the Nearest Cepheid: The Periastron Campaign | Apr 1-2(1/2), Apr 3 |
| M18/NOIR2 | Gallenne | Kervella, Merand, Evans, Proffitt | Multiplicity of Galactic Cepheids from long-baseline interferometry | July 18(1/2), 19-21, 22(1/2) |
| M19/NOIR3 | Aydi | Chomiuk, Richardson, Sokolovski, Kawash, Mukai, Sokolovsky, Linford | Imaging the Evolution and Expansion of Nova Ejecta | TOO |
| M20/NOIR6 | Anugu | Mahadevan, Le Bouquin, Eisner, Kratter, Rajagopal | Four planet hosting HR8977 system is a inner binary? | July 15(1/2), 28-29(1/2) |
| M21/NOIR7 | Anugu | Kluska, Ertel, Rajagopal, Van Winckel | Binary-disk interactions in post-AGB circumbinary disks | July 16-17, 18(1/2), 28(1/2) |
| M22/NOIR8 | Rajagopal | Anugu, Madadevan, Bender, Robertson, Stefansson | Radii of NEID targeted exoplanet hosts and exoplanet host candidates with CHARA/MIRC-X | Mar 14-15, Apr 4-5(1/2), May 27(1/2), 28, 29(1/2) |
| M23/NOIR9 | Clark | van Belle, von Braun | MIRC-X Survey of Potential Low-Mass Exoplanet Hosts | Apr 4-5(1/2), 6 |
| M24/P6/NOIR10 | Sandquist | Lam | Precise Ages from Masses — Bright Resolved Binaries in Praesepe and Coma Ber Clusters | Mar 23 (1/2), Mar 28, Apr 2(1/2), May 30(1/2) |
| M25/NOIR11 | Torres | | Dynamical masses, radii, and age of Castor A and B | Mar 1, 3, 5(1st half) |
| PAVO Programs | | | | |
| P1 | Rains | Ireland, White, Zerjal, Casagrande, Huber | Accurate diameters of M-dwarfs with PAVO | Apr 7, 9-11 |
| P2 | Coumarbatch | Martens, Jones, Egeland, White | Radii of Solar Analogues | Apr 19-20, June 2 |
| P3 | White | Bedding, Murphy, Huber, Joyce, Ireland | Angular sizes and oblateness of delta scuti pulsators observed by TESS | Apr 16-18, May 1-3 |
| P4/C3/NOIR4 | Ellis | Boyajian, von Braun | Radii of late type-dwarf, exoplanet hosts, and exoplanet host candidates | Mar 6-9 |
| P5/C4/NOIR5 | Boyajian | von Braun, Ellis | Diameters and Temperatures of Main Sequence FG stars | Mar 10, 11 (1/2), 12-13 |
| P6/M24/NOIR10 | Sandquist | Lam | Precise Ages from Masses — Bright Resolved Binaries in Praesepe and Coma Ber Clusters | June 1 |
| Engineering Programs | | | | |
| ALOHA/ENG | Reynaud | Grossard | ALOHA Engineering | Apr 28-30, May 4-5 |
| J1/ENG | Scott | ten Brummelaar, Coude du Foresto, Pedretti, Thomson, Labadie, Madhav, Roth, Pike, Sharma, Benoit, Dinkelaker, Nayak | Upgrading and repairing JouFLU | Jun 2 |
| M11/ENG | Monnier | LeBouquin, Kraus, ten Brummelaar, Anugu, Lanthermann, Setterholm, Gardner, Ennis, Labdon | MIRC-X + MYSTIC Integration | June 12-16 |
| M16/ENG | ten Brummelaar | Farrington, Anderson | AO Engineering | All first half: Mar 11, 18, 25, Apr 1, 8, 15, 22, 29, May 6, 13, 20, 27, June 17, 24, July 1, 8, 15, 22, 29 |
| S1/ENG | Mourard | Berio, LeBouquin, Rosseau, Pannetier | Decommissioning of VEGA and preparation for SPICA | May 24-26 |
| DD | Gies | | Director's Discretion | Mar 1, 3, 5 (2nd half), Apr 21(2nd), 23 (2nd), May 23(1st) |

CHARA Array 2021A Observing Schedule

| | | Sunday | | Monday | | Tuesday | | Wednesday | | Thursday | | Friday | | Saturday | | | | | | | |
|-------|----|--------------------------------|----------------------|------------------|----------------------------|----------------------|----------|--------------------------------|------------------|------------------|----------------------------|--|----------|------------------------|------------|------------------|----------------------------|----------------------|----------------------------|----------------------------|----------------------|
| March | | | 1 | M25/NOIR11 DD | ALL ALL | 2 | M3 M3 | ALL ALL | 3 | M25/NOIR11 DD | ALL ALL | 4 | M3 M3 | ALL ALL | 5 | M25/NOIR11 DD | ALL ALL | 6 | C3/P4/NOIR4 C3/P4/NOIR4 | ALL ALL | |
| | 7 | C3/P4/NOIR4 C3/P4/NOIR4 | ALL ALL | 8 | C3/P4/NOIR4 C3/P4/NOIR4 | ALL ALL | 9 | C3/P4/NOIR4 C3/P4/NOIR4 | ALL ALL | 10 | C4/P5/NOIR5 C4/P5/NOIR5 | ALL ALL | 11 | M16/ENG C4/P5/NOIR5 | ALL ALL | 12 | C4/P5/NOIR5 C4/P5/NOIR5 | ALL ALL | 13 | C4/P5/NOIR5 C4/P5/NOIR5 | ALL ALL |
| | 14 | M22/NOIR8 M22/NOIR8 | ALL ALL | 15 | M22/NOIR8 M22/NOIR8 | ALL ALL | 16 | C2 C2 | ALL ALL | 17 | C2 C2 | ALL ALL | 18 | M16/ENG C2 | ALL ALL | 19 | C2 C2 | ALL ALL | 20 | C2 C2 | ALL ALL |
| | 21 | C2 C2 | ALL ALL | 22 | C2 C2 | ALL ALL | 23 | M24/P6/NOIR10 M10 | ALL ALL | 24 | M10 M10 | ALL ALL | 25 | M16/ENG M10 | ALL ALL | 26 | M10 M10 | ALL ALL | 27 | M10 M10 | ALL ALL |
| | 28 | M24/P6/NOIR10 M24/P6/NOIR10 | ALL ALL | 29 | M4 M4 | ALL ALL | 30 | M4 M4 | ALL ALL | 31 | M4 M4 | ALL ALL | 1 | M16/ENG M17/NOIR1 | ALL ALL | 2 | M24/P6/NOIR10 M17/NOIR1 | ALL ALL | 3 | M17/NOIR1 M17/NOIR1 | ALL ALL |
| April | 4 | M22/NOIR8 M23/NOIR9 | ALL ALL | 5 | M22/NOIR8 M23/NOIR9 | ALL ALL | 6 | M23/NOIR9 M23/NOIR9 | ALL ALL | 7 | P1 P1 | W1W2E2S2 W1W2E2S2 | 8 | M16/ENG M13 | ALL ALL | 9 | P1 P1 | W1W2E2S2 W1W2E2S2 | 10 | P1 P1 | W1W2E2S2 W1W2E2S2 |
| | 11 | P1 P1 | W1W2E2S2 W1W2E2S2 | 12 | M4 M4 | ALL ALL | 13 | M4 M4 | ALL ALL | 14 | M4 M4 | ALL ALL | 15 | M16/ENG M13 | ALL ALL | 16 | P3 P3 | E1E2S2W2 E1E2S2W2 | 17 | P3 P3 | E1E2S2W2 E1E2S2W2 |
| | 18 | P3 P3 | E1E2S2W2 E1E2S2W2 | 19 | P2 P2 | E2W2E1 E2W2E1 | 20 | P2 P2 | E2W2E1 E2W2E1 | 21 | M3 DD | ALL ALL | 22 | M16/ENG M13 | ALL ALL | 23 | M3 DD | ALL ALL | 24 | C5/NOIR11 C1 | ALL S1W1E1 |
| | 25 | C5/NOIR11 C1 | ALL S1W1E1 | 26 | C5/NOIR11 C1 | ALL S1W1E1 | 27 | C5/NOIR11 C1 | ALL S1W1E1 | 28 | C5/NOIR11 - ALOHA/ENG | ALOHA/ENG ALOHA/ENG | 29 | M16/ENG ALOHA/ENG | ALL ALL | 30 | ALOHA/ENG ALOHA/ENG | ALL ALL | 1 | P3 P3 | E1E2S2W2 E1E2S2W2 |
| | | P3 P3 | E1E2S2W2 E1E2S2W2 | 3 | P3 P3 | E1E2S2W2 E1E2S2W2 | 4 | ALOHA/ENG ALOHA/ENG | ALL ALL | 5 | ALOHA/ENG ALOHA/ENG | ALL ALL | 6 | M16/ENG M4 | ALL ALL | 7 | M4 M4 | ALL ALL | 8 | M4 M4 | ALL ALL |
| May | 9 | M4 M7 | ALL ALL | 10 | M7 M7 | ALL ALL | 11 | M7 M7 | ALL ALL | 12 | M7 M7 | ALL ALL | 13 | M16/ENG M7 | ALL ALL | 14 | M7 M7 | ALL ALL | 15 | M7 M7 | ALL ALL |
| | 16 | M8 M8 | ALL ALL | 17 | M8 M8 | ALL ALL | 18 | M2 M2 | ALL ALL | 19 | M6 M6 | ALL ALL | 20 | M16/ENG M12 | ALL ALL | 21 | M6 M12 | ALL ALL | 22 | M6 M12 | ALL ALL |
| | 23 | DD M12 | ALL ALL | 24 | S1/ENG S1/ENG | ALL ALL | 25 | S1/ENG S1/ENG | ALL ALL | 26 | S1/ENG S1/ENG | ALL ALL | 27 | M16/ENG M22/NOIR8 | ALL ALL | 28 | M22/NOIR8 M22/NOIR8 | ALL ALL | 29 | M22/NOIR8 M6 | ALL ALL |
| | 30 | M24/P6/NOIR10 M6 | ALL ALL | 31 | M6 M6 | ALL ALL | 1 | P6/M24/NOIR10 P6/M24/NOIR10 | ALL ALL | 2 | P2/J1 P2/J1 | E1E2W1W2/ S1S2 E1E2W1W2/ S1S2 | 3 | M14 M14 | ALL ALL | 4 | M14 M14 | ALL ALL | 5 | M14 M14 | ALL ALL |
| | 6 | M14 M14 | ALL ALL | 7 | M14 M14 | ALL ALL | 8 | M14 M14 | ALL ALL | 9 | M4 M4 | ALL ALL | 10 | M4 M4 | ALL ALL | 11 | M4 M4 | ALL ALL | 12 | M11/ENG M11/ENG | ALL ALL |
| June | 13 | M11/ENG M11/ENG | ALL ALL | 14 | M11/ENG M11/ENG | ALL ALL | 15 | M11/ENG M11/ENG | ALL ALL | 16 | M11/ENG M11/ENG | ALL ALL | 17 | M16/ENG M1 | ALL ALL | 18 | M1 M1 | ALL ALL | 19 | M1 M8 | ALL ALL |
| | 20 | M8 M8 | ALL ALL | 21 | M8 M7 | ALL ALL | 22 | M7 M7 | ALL ALL | 23 | M7 M12 | ALL ALL | 24 | M16/ENG M12 | ALL ALL | 25 | M7 M12 | ALL ALL | 26 | M7 M12 | ALL ALL |
| | 27 | M7 M7 | ALL ALL | 28 | M7 M7 | ALL ALL | 29 | C1 C1 | S1W1E1 S1W1E1 | 30 | C1 C1 | S1W1E1 S1W1E1 | 1 | M16/ENG M6 | ALL ALL | 2 | M6 M6 | ALL ALL | 3 | M6 M6 | ALL ALL |
| | 4 | M6 M5 | ALL ALL | 5 | M5 M5 | ALL ALL | 6 | M5 M5 | ALL ALL | 7 | M5 M9 | ALL ALL | 8 | M16/ENG M9 | ALL ALL | 9 | M9 M9 | ALL ALL | 10 | M9 M9 | ALL ALL |
| July | 11 | M9 M9 | ALL ALL | 12 | M4 M4 | ALL ALL | 13 | M4 M4 | ALL ALL | 14 | M4 M4 | ALL ALL | 15 | M16/ENG M20/NOIR6 | ALL ALL | 16 | M21/NOIR7 M21/NOIR7 | ALL ALL | 17 | M21/NOIR7 M21/NOIR7 | ALL ALL |
| | 18 | M21/NOIR7 M18/NOIR2 | ALL ALL | 19 | M18/NOIR2 M18/NOIR2 | ALL ALL | 20 | M18/NOIR2 M18/NOIR2 | ALL ALL | 21 | M18/NOIR2 M18/NOIR2 | ALL ALL | 22 | M16/ENG M18/NOIR2 | ALL ALL | 23 | M15 M15 | ALL ALL | 24 | M15 M15 | ALL ALL |
| | 25 | M15 M15 | ALL ALL | 26 | M15 M15 | ALL ALL | 27 | M15 M15 | ALL ALL | 28 | M21/NOIR7 M20/NOIR6 | ALL ALL | 29 | M16/ENG M20/NOIR6 | ALL ALL | 30 | M12 M12 | ALL ALL | 31 | M12 M12 | ALL ALL |