## 60" Schedule for January 2017 (as of 16 Dec 2016)

January February March April Programs PDF Schedules

| DATE |  |  | MOON | INST | OBSERVER | PI AND PROGRAM | MMT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan | 1 | Sun | 0.15 | FAST | MC | FAST Combo | --- | NEW YEAR'S DAY |
| Jan | 2 | Mon | 0.23 | " | PB | " | --- |  |
| Jan | 3 | Tue | 0.33 | " | " | " | - |  |
| Jan | 4 | Wed | 0.43 | " | MC | " | - |  |
| Jan | 5 | Thu | 0.54 | TRES | " | TRES Combo | --- |  |
| Jan | 6 | Fri | 0.66 | " | " | " | --- |  |
| Jan | 7 | Sat | 0.76 | " | GE | " | - |  |
| Jan | 8 | Sun | 0.86 | " | " | " | - |  |
| Jan | 9 | Mon | 0.93 | " | " | " | PB/MM |  |
| Jan | 10 | Tue | 0.98 | " | " | " | " |  |
| Jan | 11 | Wed | 1.00 | " | " | " | " |  |
| Jan | 12 | Thu | 0.99 | " | " | " | " |  |
| Jan | 13 | Fri | 0.95 | " | " | " | MC/MM |  |
| Jan | 14 | Sat | 0.90 | " | " | " | " |  |
| Jan | 15 | Sun | 0.82 | " | " | " | " |  |
| Jan | 16 | Mon | 0.74 | " | " | " | " | MLK DAY |
| Jan | 17 | Tue | 0.65 | " | " | " | " |  |
| Jan | 18 | Wed | 0.55 | " | " | " | --- |  |
| Jan | 19 | Thu | 0.46 | " | " | " | --- |  |
| Jan | 20 | Fri | 0.36 | " | " | " | --- |  |
| Jan | 21 | Sat | 0.28 | " | " | " | --- |  |
| Jan | 22 | Sun | 0.20 | " | " | " | --- |  |
| Jan | 23 | Mon | 0.13 | " | " | " | --- |  |
| Jan | 24 | Tue | 0.07 | FAST | PB | FAST Combo | - |  |
| Jan | 25 | Wed | 0.03 | " | " | " | --- |  |
| Jan | 26 | Thu | 0.01 | " | " | " | --- |  |
| Jan | 27 | Fri | 0.00 | " | Macri | " | $\mathrm{MC} / \mathrm{HC}$ |  |
| Jan | 28 | Sat | 0.02 | " | " | " | " |  |
| Jan | 29 | Sun | 0.06 | " | " | " | " |  |
| Jan | 30 | Mon | 0.11 | TRES | GE | TRES Combo | " |  |
| Jan | 31 | Tue | 0.19 | " | " | " | PB/HS |  |

** MOON IS FRACTIONAL MOON ILLUMINATION AT MIDDLE OF NIGHT
**** DATE IS STANDARD TIME AT START OF NIGHT

JAN FAST Combo (program \& effective nights): (10 nights)
Blanchard 225 (SLSNes, TDEs) 1 night, Kenyon 12 (Symbiotic) 0.5 night, Brown 178 (merging WDs) 2 nights, Mondrik 228 (M Dwarfs) 1 night, Kenyon 219 (Debris) 1 night, Falco 220 (ASAS-SN) 0.5 night, Kirshner 2 (SN) 2 nights, Falco 141 (2MASS) 0.5night.

NOTE: Projects are listed in order of decreasing priority per their TAC grades. Rare TOO targets (GRBs, XRNs) have highest priority.

## TRES Combo for trimester:

Quinn (Giant planets) 6 nights, Latham 186 (Spec K2) 13 nights, Irwin 183 (MEarth follow-up) 3 nights, Zhou (Confirm K2 warm Jupiters) 3 nights, Latham 12 (Transiting planets) 25 nights, Winters 198 (late M Dwarfs) 4 nights, Falco (Map Novae MW) 1 night, Torres 8 (Accurate masses evolved) 1 night, Torres 15 (Eclipsing binaries) 15 nights,

Zhou 192 (Confirm planets massive stars) 7 nights, Winston (Star-star interactions) 1 night, Torres (Confirm runaway) 2 nights, Torres 6 (Pleiades binary survey) 2 nights.

## 60" Schedule for February 2017 (as of 16 Dec 2016)

January February March April Programs PDF Schedules

** MOON IS FRACTIONAL MOON ILLUMINATION AT MIDDLE OF NIGHT
**** DATE IS STANDARD TIME AT START OF NIGHT

FEB FAST Combo (program \& effective nights): (5 nights)
Blanchard 225 (SLSNes, TDEs) 1 night, Kenyon 12 (Symbiotic) 0.5 night, Brown 178 (merging WDs) 2 nights, Mondrik 228 (M Dwarfs) 1 night, Kenyon 219 (Debris) 1 night, Falco 220 (ASAS-SN) 0.5 night, Kirshner 2 (SN) 2 nights, Falco 141 (2MASS) 0.5 night.

NOTE: Projects are listed in order of decreasing priority per their TAC
grades. Rare TOO targets (GRBs, XRNs) have highest priority.

TRES Combo for trimester:
Quinn (Giant planets) 6 nights, Latham 186 (Spec K2) 13 nights, Irwin 183 (MEarth follow-up) 3 nights, Zhou (Confirm K2 warm Jupiters) 3 nights, Latham 12 (Transiting planets) 25 nights, Winters 198 (late M Dwarfs) 4 nights, Falco (Map Novae MW) 1 night, Torres 8 (Accurate masses evolved) 1 night, Torres 15 (Eclipsing binaries) 15 nights, Zhou 192 (Confirm planets massive stars) 7 nights, Winston (Star-star interactions) 1 night, Torres (Confirm runaway) 2 nights, Torres 6 (Pleiades binary survey) 2 nights.

## 60" Schedule for March 2017 (as of 16 Dec 2016)

January February March April Programs PDF Schedules

| DATE |  |  | MOON | INST | OBSERVER | PI AND PROGRAM | MMT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mar | 1 | Wed | 0.16 | FAST | XX | FAST Combo | $\mathrm{MC} / \mathrm{HC}$ |
| Mar | 2 | Thu | 0.25 | " | " | " | " |
| Mar | 3 | Fri | 0.36 | TRES | GE | TRES Combo | " |
| Mar | 4 | Sat | 0.47 | " | " | " | " |
| Mar | 5 | Sun | 0.58 | " | " | " | PB/HC |
| Mar | 6 | Mon | 0.69 | " | " | " | " |
| Mar | 7 | Tue | 0.79 | " | " | " | " |
| Mar | 8 | Wed | 0.88 | " | " | " | " |
| Mar | 9 | Thu | 0.94 | " | MC | " | --- |
| Mar | 10 | Fri | 0.98 | " | " | " | -- |
| Mar | 11 | Sat | 1.00 | " | " | " | - |
| Mar | 12 | Sun | 0.99 | " | PB | " | - |
| Mar | 13 | Mon | 0.97 | " | " | " | --- |
| Mar | 14 | Tue | 0.93 | FAST | Berger | ASTRO100 | --- |
| Mar | 15 | Wed | 0.86 | " | " | " | --- |
| Mar | 16 | Thu | 0.79 | " | " | " | --- |
| Mar | 17 | Fri | 0.71 | TRES | GE | TRES Combo | --- |
| Mar | 18 | Sat | 0.62 | " | " | " | --- |
| Mar | 19 | Sun | 0.53 | " | " | " | --- |
| Mar | 20 | Mon | 0.43 | " | " | " | - |
| Mar | 21 | Tue | 0.34 | " | PB | " | - |
| Mar | 22 | Wed | 0.25 | " | " | " | --- |
| Mar | 23 | Thu | 0.17 | " | MC | " | - |
| Mar | 24 | Fri | 0.10 | FAST | " | FAST Combo | --- |
| Mar | 25 | Sat | 0.04 | " | " | " | - |
| Mar | 26 | Sun | 0.01 | " | PB | " | --- |
| Mar | 27 | Mon | 0.00 | " | " | " | - |
| Mar | 28 | Tue | 0.02 | " | " | " | - |
| Mar | 29 | Wed | 0.06 | " | MC | " | --- |
| Mar | 30 | Thu | 0.13 | " | " | " | - |
| Mar | 31 | Fri | 0.22 | " | " | " | --- |

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** MOON IS FRACTIONAL MOON ILLUMINATION AT MIDDLE OF NIGHT **** DATE IS STANDARD TIME AT START OF NIGHT
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MAR FAST Combo (program & effective nights): (13 nights)
Blanchard 225 (SLSNes, TDEs) 1 night, Kenyon 12 (Symbiotic) 0.5 night,
Brown 178 (merging WDs) 1 night, Mondrik 228 (M Dwarfs) 1 night,
Kenyon 219 (Debris) 1 night, Falco 220 (ASAS-SN) 0.5 night,
Kirshner 2 (SN) 2 nights, Falco 141 (2MASS) 0.5 night.
```

NOTE: Projects are listed in order of decreasing priority per their TAC grades. Rare TOO targets (GRBs, XRNs) have highest priority.

## TRES Combo for trimester:

Quinn (Giant planets) 6 nights, Latham 186 (Spec K2) 13 nights, Irwin 183 (MEarth follow-up) 3 nights, Zhou (Confirm K2 warm Jupiters) 3 nights, Latham 12 (Transiting planets) 25 nights, Winters 198 (late M Dwarfs) 4 nights, Falco (Map Novae MW) 1 night, Torres 8 (Accurate masses evolved) 1 night, Torres 15 (Eclipsing binaries) 15 nights,

Zhou 192 (Confirm planets massive stars) 7 nights, Winston (Star-star interactions) 1 night, Torres (Confirm runaway) 2 nights, Torres 6 (Pleiades binary survey) 2 nights.

## 60" Schedule for April 2017 (as of 16 Dec 2016)

January February March April Programs PDF Schedules

| DATE | MOON | INST | OBSERVER | PI AND PROGRAM | MMT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Apr 1 Sat | 0.33 | FAST | PB | FAST Combo | -- |
| Apr 2 Sun | 0.44 | , | " | " | --- |
| Apr 3 Mon | 0.55 | TRES | GE | TRES Combo | --- |
| Apr 4 Tue | 0.66 | " | " | " | MC/MM |
| Apr 5 Wed | 0.76 | " | " | " | " |
| Apr 6 Thu | 0.84 | " | " | " | --- |
| Apr 7 Fri | 0.91 | " | " | " | PB/MM |
| Apr 8 Sat | 0.96 | " | " | " | " |
| Apr 9 Sun | 0.99 | " | PB | " | --- |
| Apr 10 Mon | 1.00 | " | " | " | --- |
| Apr 11 Tue | 0.99 | " | GE | " | --- |
| Apr 12 Wed | 0.96 | " | " | " | MC/MM |
| Apr 13 Thu | 0.91 | " | " | " | " |
| Apr 14 Fri | 0.85 | " | MC | " | --- |
| Apr 15 Sat | 0.78 | " | " | " | --- |
| Apr 16 Sun | 0.69 | " | GE | " | --- |
| Apr 17 Mon | 0.60 | " | " | " | PB/HS |
| Apr 18 Tue | 0.51 | " | " | " | " |
| Apr 19 Wed | 0.41 | " | " | " | " |
| Apr 20 Thu | 0.31 | " | " | " | " |
| Apr 21 Fri | 0.22 | " | " | " | MC/HS |
| Apr 22 Sat | 0.14 | " | " | " | " |
| Apr 23 Sun | 0.07 | " | " | " | " |
| Apr 24 Mon | 0.02 | FAST | XX | FAST Combo | " |
| Apr 25 Tue | 0.00 | " | " | " | PB/HS |
| Apr 26 Wed | 0.01 | " | " | " | " |
| Apr 27 Thu | 0.05 | " | " | " | " |
| Apr 28 Fri | 0.11 | " | " | " | MC/HS |
| Apr 29 Sat | 0.20 | " | " | " | " |
| Apr 30 Sun | 0.29 | " | " | " | " |

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** MOON IS FRACTIONAL MOON ILLUMINATION AT MIDDLE OF NIGHT
**** DATE IS STANDARD TIME AT START OF NIGHT
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```
APR FAST Combo (program & effective nights): (9 nights)
Blanchard 225 (SLSNes, TDEs) 1 night, Kenyon 12 (Symbiotic) 0.5 night,
Brown 178 (merging WDs) 1 night, Mondrik 228 (M Dwarfs) 1 night,
Kenyon 219 (Debris) 1 night, Falco 220 (ASAS-SN) 0.5 night,
Kirshner 2 (SN) 2 nights, Falco 141 (2MASS) 0.5 night.
```

NOTE: Projects are listed in order of decreasing priority per their TAC grades. Rare TOO targets (GRBs, XRNs) have highest priority.

## TRES Combo for trimester:

Quinn (Giant planets) 6 nights, Latham 186 (Spec K2) 13 nights, Irwin 183 (MEarth follow-up) 3 nights, Zhou (Confirm K2 warm Jupiters) 3 nights, Latham 12 (Transiting planets) 25 nights, Winters 198 (late M Dwarfs) 4 nights, Falco (Map Novae MW) 1 night, Torres 8 (Accurate masses evolved) 1 night, Torres 15 (Eclipsing binaries) 15 nights,

January February March April PDF

## 60" Allocations January-April 2017

## PI

Title

Astro 100: Undergraduate Education on the FLWO 1.5m Telescope
Peter Spectroscopic and Photometric Follow-up of Blanchard $\quad$ SLSNe and TDEs from PSST
Scott Kenyon Optical Spectra of Symbiotic Stars
Warren
Brown
Nicholas P. Flares, Rotation, and Magnetic Activity in Mondrik Mid-to-Late M Dwarfs

Scott Kenyon
Debris Disk Candidates from the WISE Disk Detective Program
Spectroscopy of Transients from the All-Sky
Emilio Falco Automated Survey for SuperNovae: Big
Science with Small Telescopes
Robert
Kirshner
Emilio Falco
Supernova Spectroscopy with FAST
Mapping the nearby Universe at low Galactic latitudes with the 2MASS Redshift Survey

| Edo Berger | Astro 100: Undergraduate Education on the <br> FLWO 1.5m Telescope | 3 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| Peter <br> Blanchard | Spectroscopic and Photometric Follow-up of <br> SLSNe and TDEs from PSST | 4 | 0 | 0 |
| Scott Kenyon <br> Warren <br> Brown | Optical Spectra of Symbiotic Stars |  |  |  |
| Merging White Dwarfs |  |  |  |  |
| Nicholas P. | Flares, Rotation, and Magnetic Activity in <br> Mondrik | 3 | 0 | 0 |
| Mid-to-Late M Dwarfs <br> Debris Disk Candidates from the WISE Disk <br> Detective Program <br> Spectroscopy of Transients from the All-Sky <br> Automated Survey for SuperNovae: Big <br> Science with Small Telescopes | 6 | 0 | 0 |  |
| Emilio Falco | 2 | 0 | 0 | 0 |
| Robert | Supernova Spectroscopy with FAST | 0 | 0 |  |
| Kirshner | Mapping the nearby Universe at low Galactic | 2 | 2 | 0 |
| Emilio Falco | Matitudes with the 2MASS Redshift Survey <br> lat | 8 | 0 | 0 |


| Samuel Quinn | Giant Planets in Open Clusters | 0 | 1 | 5 |
| :---: | :---: | :---: | :---: | :---: |
| David W. <br> Latham | Spectroscopic follow-up of K2 Planet Candidates | 0 | 7 | 6 |
| Jonathan Irwin | MEarth Spectroscopic Follow-up | 0 | 2 | 1 |
| George Zhou | Confirming K2 Warm Jupiters with TRES | 0 | 0 | 3 |
| David W. <br> Latham | Transiting Planet Candidate Follow-Up - 60 inch | 0 | 10 | 15 |
| Jennifer Winters | Characterizing the Nearby Northern Mid-to-Late M Dwarfs with TRES | 0 | 0 | 4 |
| Emilio Falco | The first complete map of classical novae in the Milky Way | 0 | 1 | 0 |
| Guillermo Torres | Accurate masses for evolved stars | 0 | 0 | 1 |
| Guillermo Torres | Eclipsing binaries | 0 | 0 | 15 |
| George Zhou | Confirming and characterising planets around massive stars | 0 | 0 | 7 |
| Elaine Winston | Searching for Star-Star Interactions in Nearby Eclisping Binaries | 0 | 0 | 1 |
| Guillermo Torres | Confirming runaway stars in the binary supernova scenario | 0 | 0 | 2 |
| Guillermo <br> Torres | Pleiades binary survey | 0 | 0 | 2 |

