

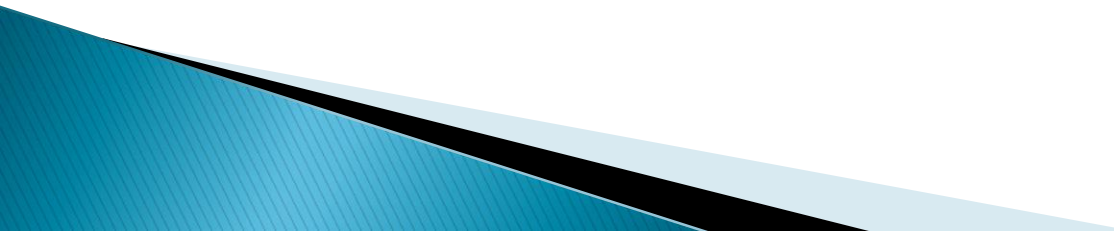
Al – Farabi Kazakh National university

Asteroid - comet monitoring

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Mission objectives

- ▶ Collect astrometric and photometric information about asteroids, comets and space debris.
 - ▶ Discovering new and supporting detected asteroids and comets.
 - ▶ Research physical characteristics Individual asteroids approaching the Earth
 - ▶ Remote control and work at alert mode
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Tien-Shan Astronomical Observatory



▶ $43^{\circ}03'29''$ n. | $76^{\circ}58'17''$ e. |

▶ Height is 2735

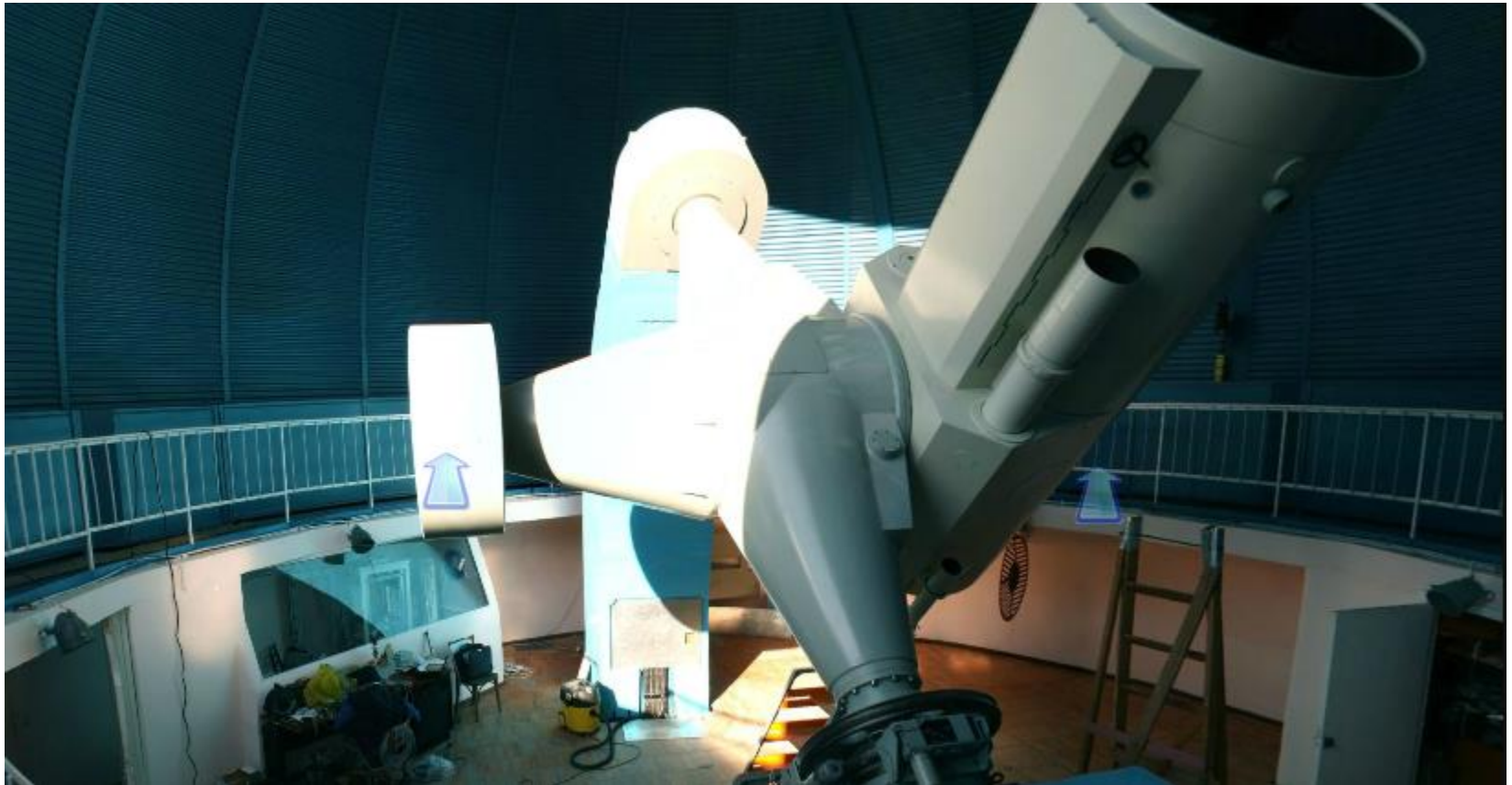
▶ 1200 hours of photometric observations in year (100 nights)

Equipment of Tien-Shan Astronomical Observatory

Telescopes:

- ▶ 2x ZEISS-1000 Ritchey Chretien,
($D = 1 \text{ m}$, $F = 13.5 \text{ m}$)
equipped with guide telescopes with
 $D = 200\text{mm}$, $F = 3000\text{mm}$
- ▶ AZT-8
($D = 700 \text{ mm}$, $F = 3150 \text{ mm}$)
- ▶ Schmidt system telescope,
($D = 500 \text{ mm}$, $F = 8000 \text{ mm}$)
- ▶ 2x AZT-14 Cassegrain,
($D = 480 \text{ mm}$, $F = 7715 \text{ mm}$)

ZEISS-1 000 Ritchey Chretien



Equipment of Tien-Shan Astronomical Observatory

CCD cameras:

- ▶ Type ST-7 and ST-8 (SBIG, USA)
- ▶ DV 420 A - BV, Andor
- ▶ Radiation detector STT3200ME

For photometry

- ▶ Photometer SPP-5a UBV
- ▶ Filter - SII 50mm filter SQ 5 nm
- ▶ Filter - OIII 50mm filter SQ 5 nm
- ▶ Filter - H-alpha 50mm filter SQ 5 nm

Thanks for your attention !

