



**Circle of Astronomy and Space Research  
of Sofia University**

## **Circle of Astronomy and Space Research of University Center for space research**

performs astronomical observations and research in the field of astrophysics and space research under the guidance of experienced astronomers and space scientists.

**Members of the circle participated in observations which led to the discovery of all new Bulgarian asteroids in the last 10 years!**

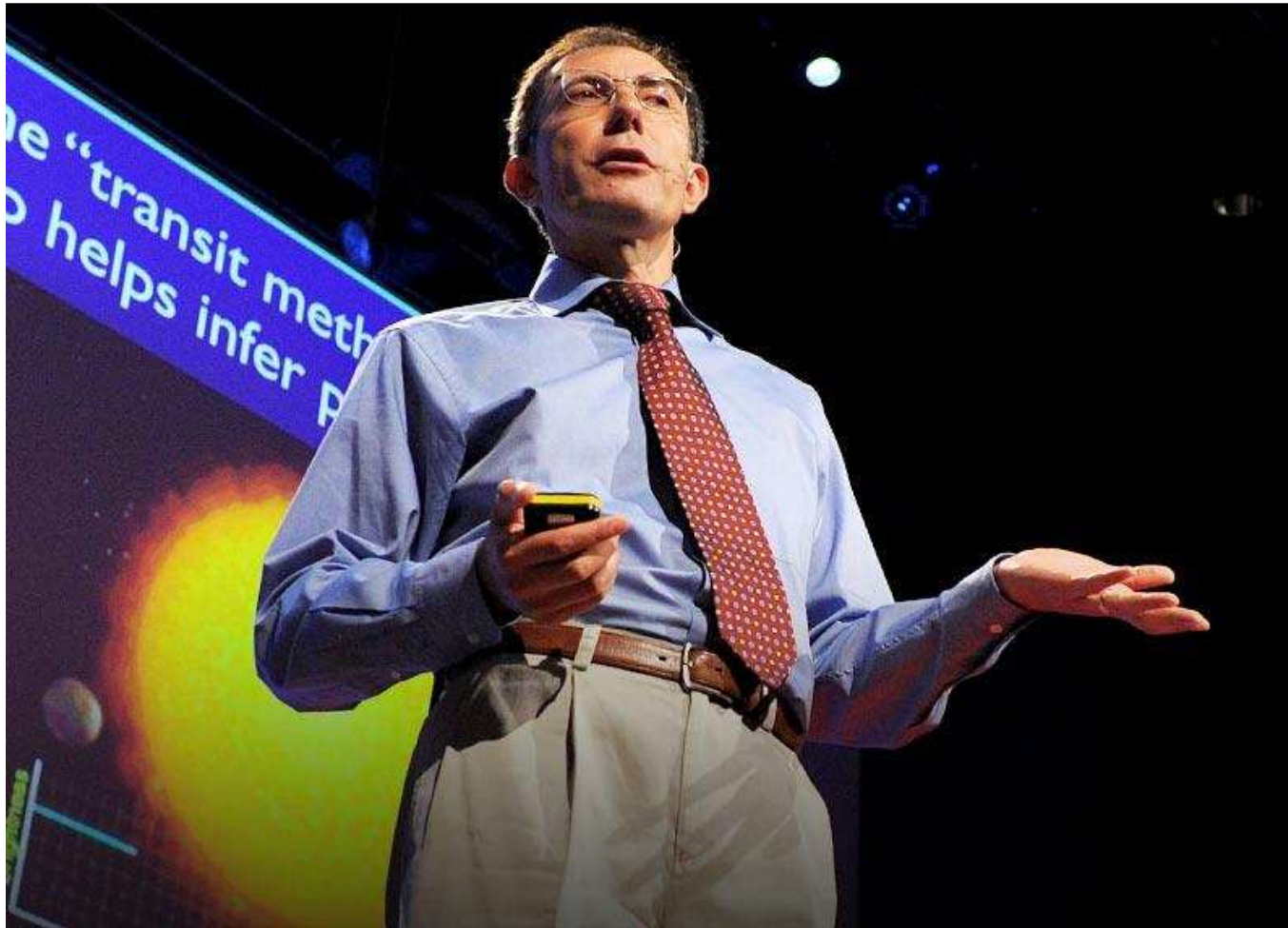
This is the only astronomy circle in Bulgaria, which has independent scientific research. In it students may conduct their own research with significant results under the guidance of professionals. This circle made all calibrations for astronomical observations of the National programme for research of the solar eclipse in 1999, and 6 expeditions for observation of solar eclipses in 2006 and 1999. Students from different universities and schools participate in the circle.

Part of the astronomical objects observed and photographed by the circle are: Rare astronomical phenomena (comets, solar and lunar eclipses) in visible and infrared light, invisible parts of the solar corona up to distances 5 times greater than those visible by naked eye, the invisible part of the solar corona in the infrared light, infrared images of meteor showers, nebulae and galaxies:

<https://www.youtube.com/watch?v=7GH9auKNGGU>

Meetings: Every Tuesday at 7 p.m., Faculty of Physics, Sofia University,  
bul. James Bouchier 5, Aud. B302, 3rd floor. building B

**Inquiries and enrolling: YYShopov@Phys.Uni-Sofia.bg, tel. 81-61-732**



**Former president of the Circle Prof. Dimitar Sasselov, now Director of Harvard Origins of Life Initiative,** <http://origins.harvard.edu/people?page=1>

**Harvard University, Department of Astronomy**

<http://astronomy.fas.harvard.edu/people/dimitar-sasselov>

**Lecture of Prof. Dimitar Sasselov on Exoplanet Theory at the Circle:**

<https://www.youtube.com/watch?v=FCP-eBmQOxU>

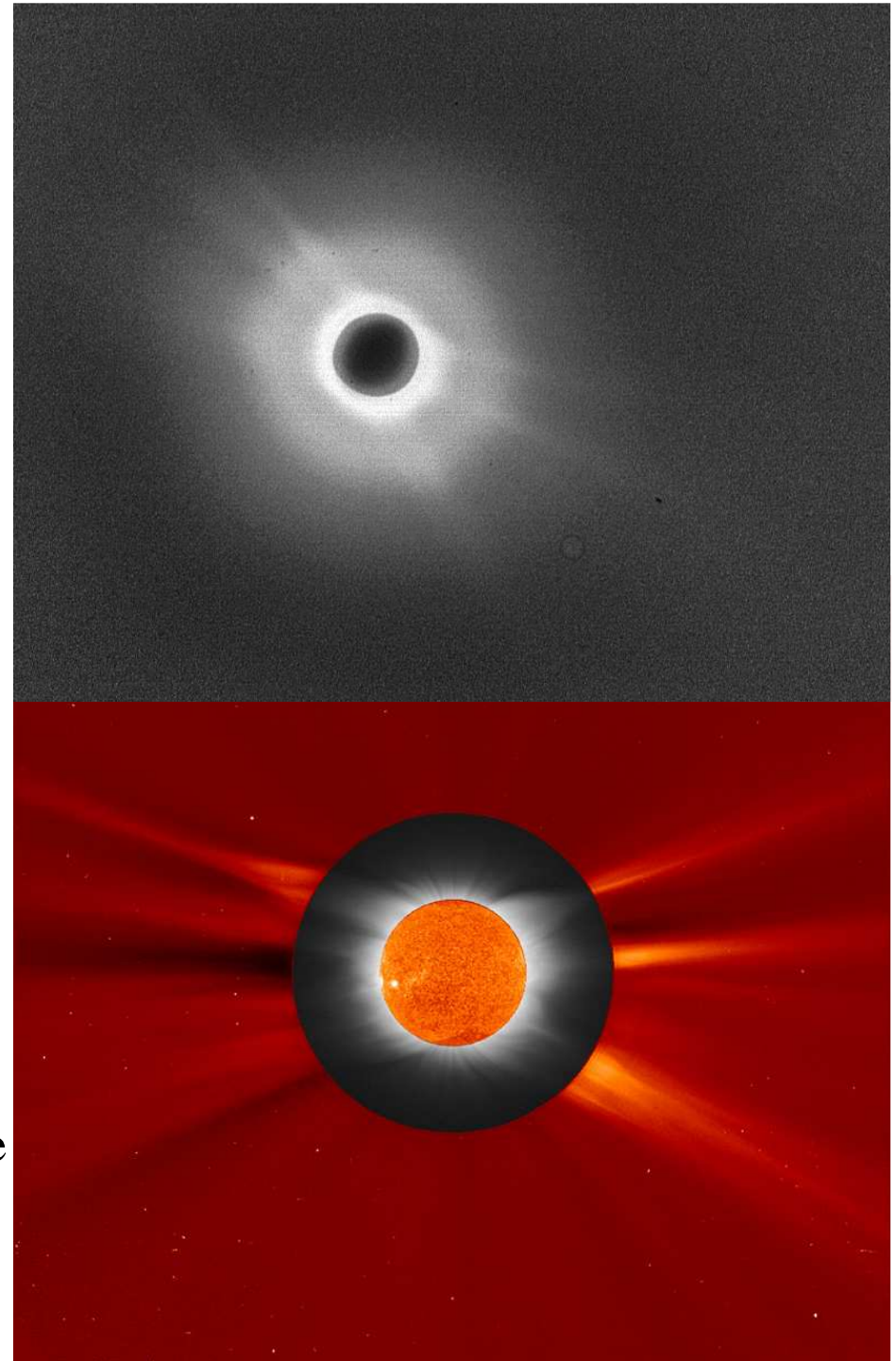
<https://www.youtube.com/watch?v=fWEsfQU4Pic>

# Observational camp of the Center for observation of solar eclipse in 2006



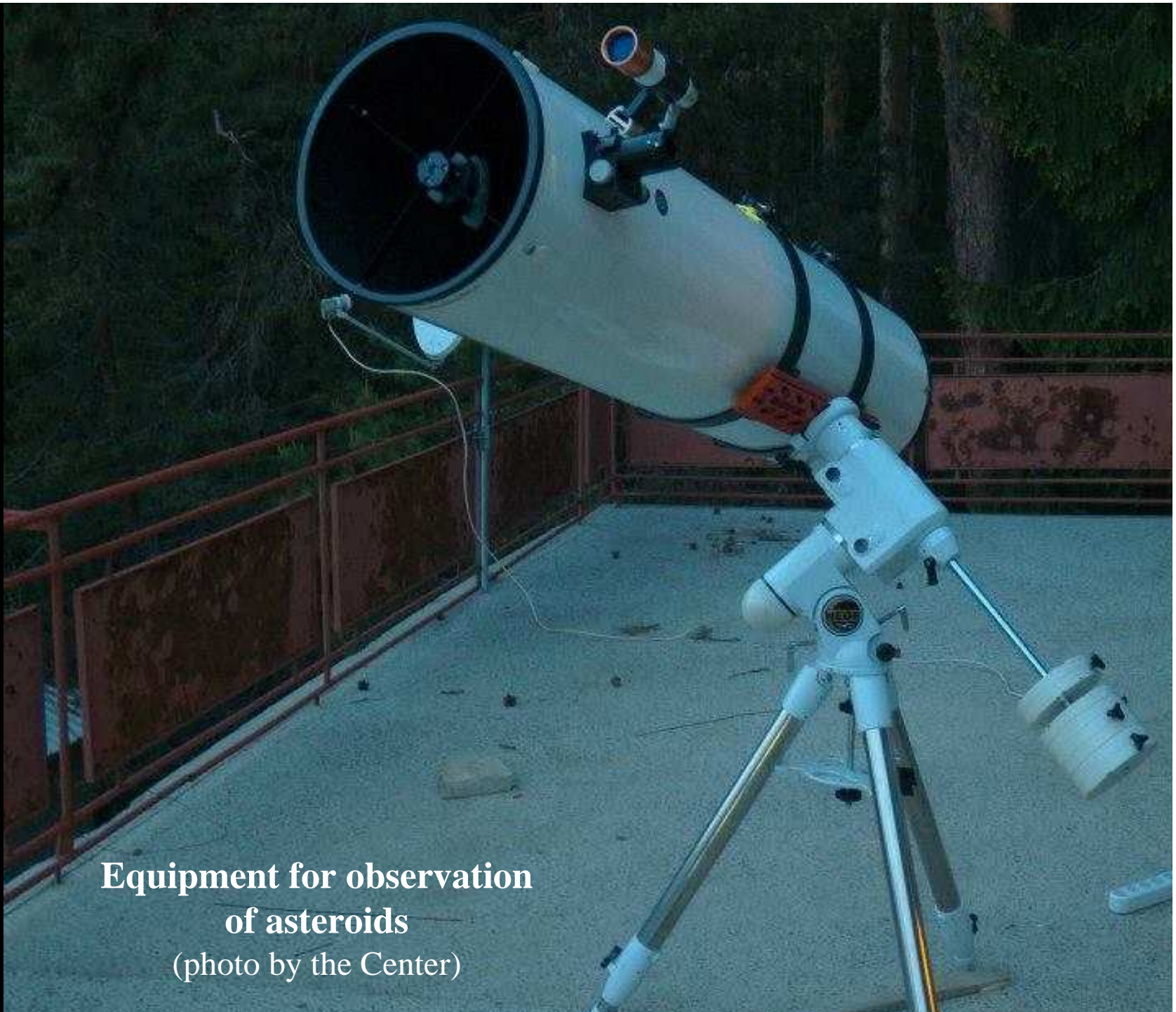
Photo of the 2006 solar eclipse made by the Center, processed by RGB-color photometry by the **Circle of Astronomy and Space Research** of University Center for Space Research and Technology

A composite image from images obtained from the space by SOHO UV-imaging telescope+ Space coronagraph LASCO C2 +ground observations at the same time made by Prof. Jay Pasachoff (president of IAU working group on Solar eclipses).





Infrared image of comet PanSTARRS (2013)  
obtained by the UCSRT team



**Equipment for observation  
of asteroids**  
(photo by the Center)

**Equipment of the Circle**  
Purchased from two grants by  
University Student Council  
of Sofia University

Extra Heavy Duty  
Computerized GOTO System  
Skywatcher NEQ6





A photograph of a Perseid meteor streaking across a dark night sky filled with stars. The meteor is a bright, horizontal line of light, transitioning from a reddish-orange glow on the left to a yellowish-green glow on the right. The background is a dense field of stars of various colors and magnitudes.

**Glowing brightly in colours – a Perseid meteor.**

**Photographer- Maria Dimitrova from the Circle:**

<http://www.skyandtelescope.com/online-gallery/glowing-brightly-in-colours-a-perseid-meteor/>

