

**ПРОГРАМА**  
**засідань секції «Фізика Сонця і сонячна активність»**  
**Міжнародної конференції**  
**«Астрономія та фізика космосу»**  
(м. Київ, 23–26 травня 2017 р.)

**24 травня 2016 р., середа**

9.30 – 12.30 – пленарне засідання

12.30–14.00 – Перерва на обід.

**14.00 – 18.10** – Meeting of the section «**Solar physics and solar activity**»  
(VIRGO-hall of Astronomical observatory)

Chairman – ***R.I. Kostik***

14.00 – 14.25 – *O.A.Baran, M.I.Stodilka*. Long-lived granular structures in solar photosphere.

14.25 – 14.50 – *V.N.Krivodubsky*. Alpha-effect and forecast of poloidal magnetic fields in minimum of solar cycles.

14.50 – 15.15 – *N.N.Kondrashova, U.M.Leiko*. Evidence of a new magnetic flux emergence in the active region.

15.15 – 15.30 – *S.N.Osipov, A.V.Pankivska*. Localization of Solar Limb Position at Different Instrumental and Atmospheric Conditions

15.30 – 16.00 – Coffee break.

Chairman – ***Yu. T. Tsap***

16.00 – 16.25 – ***R.I. Kostik***. Do the waves affect convection in the solar atmosphere?

16.25 – 16.50 – *V.G. Lozitsky, E.A. Baranovsky, N.I. Lozitska, V.P. Tarashchuk*. Magnetic fields and thermodynamical conditions in X17.2/4B solar flare of 28 October 2003 by the data of simultaneous observations in 12 spectral lines.

16.50 – 17.10 – *V.M.Efimenko, V.G. Lozitsky*. Variations of areas of sunspot groups in solar activity cycles Nos. 12-24.

17.10 – 17.30 – *M.N. Pasechnik*. Spectral study of Ellerman bombs. Photosphere.

17.30 – 17.55 – *B. H. Криводубський*. Інтервал пам'яті сонячного циклу.

17.55 – 18.10 – Discussion.

**25 травня 2017 р., четвер**

9.30–12.30 – пленарне засідання

12.30–14.00 – Lunch break.

**14.00 – 17.15** – Meeting of the section «**Solar physics and solar activity**»  
(VIRGO-hall of Astronomical observatory)

Chairman – *N.G. Shchukina*

14.00 – 14.25 – *Yu.T. Tsap*, *Yu.G. Kopylova*. On the electron acceleration in the weakly ionized plasma of solar atmosphere.

14.25 – 14.50 – *I. Vasilieva*, *S. Osipov*. Changes of Fraunhofer lines profiles under transition from the center to the limb of the solar disk.

14.50 – 15.10 – *N.I. Lozitska*. Molecular lines in the sunspot umbra in wavelength range 6301-6303 Å.

15.10 – 15.30 – *V.G. Lozitsky*, *S.N. Osipov*. Observations of the Zeeman-like effects in FeI 5434.5 line in the sunspot umbra.

15.30 – 16.00 – Coffee break.

Chairman – *M.I. Stodilka*

16.00 – 16.20 – *Yu.T. Tsap*, *G.G. Motorina*. On the definition of temperature and emission measure of flare plasma with GOES, RHESSI, and SDO/AIA observations: thermal balance in coronal loops.

16.20 – 16.40 – *N.N. Kondrashova*. Abnormal Stokes profiles of the photospheric lines in the vicinity of a small pore.

16.40 – 17.00 – *V.G. Lozitsky*, *M. Gordovskyy*, *O.O. Botygina*. Estimation of diameters of smallest magnetic fluxtubes outside sunspots using SOT/Hinode observations.

17.00 – 17.15 – Concluding discussion, summarizing the work of the section.