October 3 (Monday)

STARS: FROM COLLAPSE TO COLLAPSE

PROGRAM

October 2 (Sunday)

Welcome cocktail         19-00 – 22-00

October 3 (Monday)

PLENARY SESSION

Main Conference Hall

Chairman Valentina G. Klochkova

09-00 - 09-50   Conference Opening and Greetings

09-50 - 10-30   B. M. Shustov
                Molecules and Star Formation

10-30 - 11-10   A.M. Cherepashchuk
                New Opportunities for Observations of Strong Gravity Effects near Stellar-mass and Supermassive Black Holes

11-10 - 11-40   Coffee break

SECTION 1   Star formation and interstellar medium

Small Conference Hall

Subsection  Interstellar matter

Morning session Chairman Igor I. Zinchenko

11-40 - 12-10   D. Z. Wiebe
                Star Forming regions in Orion as a dust evolution laboratory.

12-10 - 12-30   G.A. Gontcharov
                Production, processing and consumption of the dust in the Galaxy

12-30 - 12-50   A. Topchieva
                The evolution of dust and infrared radiation in HIK regions.

12-50 - 13-00   Poster presentation

13-00 - 14-30   LUNCH

14-30 - 14-50   A. M. Sobolev, A.V. Alakoz, W.A. Baan
                Record of angular resolution in astronomy: detection of fringes for H2O megamaser NGC 4258 with RadioAstron
14-50 - 15.10  E.O. Vasil'ev, Yu.A. Shchekinov  
Supernova remnants on optical recombination lines

15-10 - 15.30  A.B. Struminsky  
Stellar cosmic rays in habitable zone

15-30 - 15.50  Poster presentation

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15-50 - 16-20  Coffee break

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Subsection  Star formation

Evening session  Chairman Vladimir P. Grinin  
Small Conference Hall

16-20 - 16-50  A.M. Sobolev  
Modern paradigm of star formation in the Galaxy

16-50 - 17-20  I.I. Zinchenko  
Multi-band studies of high mass star formation on various scales

17-20 - 17-40  K.I. Smirnova  
Identification of star forming regions

17-40 - 18-00  A.E. Kostenkov  
Connection of LBV stars with young stellar clusters in M33

18-00 - 18-20  A.A. Dikaneva  
LBV stars and young groups of stars

18-20 - 19-00  Poster presentation

SECTION 5  Stars after the nuclear burning  
Conference Hall / Informatics Building

Morning session  Chairman Sergei N. Fabrika

11-40 - 12-10  D.V. Bisikalo  
Accretion processes in close binary stars

12-10 - 12-40  N.R. Ikhsanov  
Accretion in massive X-ray binaries

12-40 - 13-00  R.A. Burenin, M.G. Revnivtsev, A.Yu. Tkachenko, V.S. Vorob'ev, A.N. Semena,  
A.V. Mescheryakov, S.N. Dodonov, M.V. Elesevich, M.N. Pavlinskij  
Sample of cataclysmic variables using ROSAT X-ray survey with 400 square degrees

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13-00 - 14-30  LUNCH

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October 3 (Monday)

Evening session  Chairman  Marat R. Gilfanov  Conference Hall / Informatics Building
14-30 - 15-00  P. Baklanov
Superluminous Supernovae and Luminous Red Novae: scenarios for producing high luminocity
15-00 - 15-30  S. Fabrika
Ultraluminous X-ray sources
Evidence for a binary origin of a central compact object

15-50 - 16-20  Coffee break

Chairman  Victor A. Doroshenko  Conference Hall / Informatics Building
16-20 - 16-40  A.Yu. Kniazev, V.V. Gvaramadze
SALT spectroscopy of evolved massive stars
16-40 - 17-00  A. Volnova, M. Pruzhinskaya, A. Pozanenko, S. Blinnikov, P. Minaev
Multicolor modeling of SN 2013dx associated with GRB 130702B
17-00 - 17-20  S.V. Karpov, G.M. Beskin, A.V. Biryukov, S.F. Bondar, E.A. Ivanov, E.V. Katkova, N.V. Orekhova, A.V. Perkov, V.V. Sasyuk
Prompt optical emission of GRB160625B
17-20 - 17-40  S.A. Trushkin, N.A. Nizhelskij, P.G. Tsybulev, G.V. Zhekanis
The giant radio flare of microquasar Cygnus X-3 in September 2016
Cyg X-1: Long term variability continues
18-00 - 18-20  N.A. Tikhonov
Metallicity of stars and parameters of host galaxies
Strategy of network interaction of SAO RAS telescopes in observations of GRB optical transients

SECTION 6  Methods and instruments of the stellar astrophysics  Main Conference Hall

Morning session  Chairman  Roald E. Gershberg
11-40 - 12-10  N.E. Piskunov
GRIRES+:: the main high-resolution near infrared spectrometer for VLT
12-10 - 12-40  M.E. Sachkov
Project WSO UV: perspectives of physics of stars and stellar systems study
12-40 - 13-00 V.E. Panchuk
Promising high spectral resolution methods of star observations

13-00 - 14-30 LUNCH

Evening session Chairman Nikolai E. Piskunov Main Conference Hall

14-30 - 14-50 S. Karpov, G. Beskin, A. Biryukov, S. Bondar, E. Ivanov, E. Katkova, N. Orekhova, A. Perkov, V. Sasyuk
Mini-MegaTORTORA wide-field monitoring system with sub-second temporal resolution: observation of transient events

14-50 - 15-10 S.V. Kolesnikov, N.N. Kiselev, L.S. Shakun
Simultaneous measurement of four Stokes parameters with a rapidly spinning analyzer

An echelle spectroplarimeter of the BTA primary focus: destination and optical-mechanical construction

15-30 - 15-50 Poster presentation

15-50 - 16-20 Coffee break

16-20 - 16-40 E.S. Kulagin, V.E. Panchuk
A project of an interference super-resolution spectrograph

16-40 - 17-10 M.V. Yushkin, T.A. Fatkhullin, V.E. Panchuk
A mathematical model of orbital and ground-based cross-dispersion spectrograph

17-10 - 17-30 G. Beskin, A. Biryukov, S. Bondar, E. Ivanov, S. Karpov, E. Katkova, N. Orekhova, A. Perkov, V. Sasyuk
SAINT – wide-field multichannel optical telescope project

17-30 - 17-50 A. Richichi, N. M. Law, E. Dennihy, O. Fors, R. Carlberg, P. Tuthill, M. Ashley, B. Soonthornthum
Evryscopes for the Arctic and Antarctic

The control system of high resolution fiber spectrograph of the 1-m SAO RAS telescope

18-10 - 18-30 I.I. Antokhin
A flexible and efficient method for solving ill-posed linear integral equations of the first kind for noisy data

18-30 - 19-00 Discussion

19-00 DINNER
PLENARY SESSION  

Chairman Anatoly M. Cherepashchuk

09-00 - 09-40      Yu.Yu. Balega
Multiplicity survey of B stars in nearby OB associations

09-40 - 10-20      V.G. Klochkova
Stars transiting from cool supergiants to white dwarfs

10-20 - 10-50      Coffee break

SECTION 1  Star formation and interstellar medium

Subsection  Young stellar objects

Morning session  Chairman Dmitry Z. Wiebe

10-50 - 11-20     V. Elbakyan, E.I. Vorobyov, M.M. Dunham and M.Guedel
The nature of very low luminosity objects (VeLLOs)

11-20 - 11-50     A.E. Dudorov, S.A. Khaybrakhmanov
Fossil magnetic field of young stars young stars

11-50 - 12-20     K.N. Grankin
T Tauri stars: physical parameters and evolutionary status

12-20 - 12-40     P. P. Petrov, E.V. Babina, S. A. Babina, S.A. Artemenko
Dynamics of wind and variations of circumstellar extinction in the accreting T Tauri star RY Tau

12-40 - 13-00     A.V. Dodin
Model of radiation in surface accretion zone of T Tauri stars

13-00 - 14-30      LUNCH

Subsection  Activity in circumstellar regions of young stars

Chairman Boris M. Shustov

14-30 - 15-00     V.P. Grinin
UX Ori type stars

15-00 - 15-20     A. Rostopchina-Shakhovskaya, D. Shakhovskoy, V. Shenavrin, V. Grinin
Visual and IR variability of selected UX Ori stars
October 4 (Tuesday)

15-20 - 15-40  T.V. Demidova, V.P. Grinin  
Variable circumstellar extinction in a model of protoplanetary disk with low mass companion

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15-40 - 16-00  Coffee break

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SECTION 2  Stellar atomospheres and Stellar magnetism  Main Conference Hall

Subsection  Far evolved star

Morning session  Chairman  Nail A. Sakhibullin

10-50 - 11-20  E.A. Barsukova, V.P. Goranskij, A.F. Valeev  
Luminous red nova phenomenon

11-20 - 11-50  A. Aret, I. Kolka, M. Kraus, G. Maravelias  
The yellow hypergiant - B[e] supergiant connection

11-50 - 12-10  O.V. Maryeva  
The study of massive stars with 60 Msun initial mass at different evolutionary stages

12-10 - 12-20  E.L. Chentsov, O.V. Maryeva  
A couple of LBV stars in the association SER OB1 A

12-30 - 12-50  A.Kh. Rzaev  
Nonstationarity of atmosphere and stellar wind of the supergiant kappa Cas 0.7c1a

12-50 - 13-00  Discussion

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13-00 - 14-30  LUNCH

14-30 - 14-50  Kh.M. Mikayilov, B.N. Rustamov, I. A. Alakbarov, A.B. Rustamova  
The rapid spectral variability of the symbiotic star CH Cyg during one night

14-50 - 15-10  O.V. Maryeva, E.L. Chentsov, V.P. Goranskij, V.V. Dyachenko, S.V. Karpov  
On the nature of anomalous reddening of Cygnus OB2 #12 hypergiant

Speckle-interferometry of Mira stars with the SAO RAS 6-m: case of asymmetries

15-30 - 15-40  Discussion (Poster presentation)

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15-40 - 16-00  Coffee break

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October 4 (Tuesday)

SECTION 5  Stars after the nuclear burning  
Conference Hall / Informatics Building

Morning session  
Chairman Nazar R. Ikhsanov

10-50 - 11-20  M.R. Gilfanov  
Comptonization in X-ray binaries - dichotomy between black holes and neutron stars

11-20 - 11-40  E.P. Pavlenko  
40 years with cataclysmic variables and related systems

11-40 - 12-00  N.G. Beskrovnaya  
AR Sco – a new white dwarf in the ejector state

12-00 - 12-20  V.V. Shimansky  
On radiation formation and properties of pre-cataclismic variables with sdB-subdwarfs

12-20 - 12-40  E.A. Nikolaeva, I.F. Bikmaev, V.V. Shimansky, A.I. Galeev,  
R.Ya. Zhuchkov, E.N. Irtuganov, S.S. Melnikov, N.A. Sakhibullin  
Spectral study of X-ray source optical components IGR J17544-2619 and  
IGR J21343+4738 with 1.5-m RTT telescope

12-40 - 13-00  S.O. Kiikov  
Magnetocavitation model for the ejection from the accreting neutron star

13-00 - 14-30  LUNCH

Evening session  
Chairman Alina A. Volnova  
Conference Hall / Informatics Building

14-30 - 14-50  N.A. Katysheva, S. Yu. Shugarov  
Outburst of the unusual binary CSS160603:162117+441254

14-50 - 15-10  A.A. Mitrofanova, V.V. Shimansky, N.V. Borisov  
The study of pre-cataclysmic variables through the theoretic modeling  
of light curves and spectra

15-10 - 15-30  M.M. Gabdeev  
Curious variability of polars

15-30 - 15-40  Discussion

15-40 - 16-00  Coffee break

16-00 - 18-00  Excursion

18-00 - 19-30  Concert

19-30  DINNER
October 5 (Wednesday)

PLENARY SESSION

Main Conference Hall

Chairman Boris M. Shustov

09-00 - 09-40  M.R. Gilfanov
Problem of progenitors of Ia supernovae

09-40 - 10-20  R.E. Gershberg
Flaring red dwarfs and stellar activity of solar type – half a century of
researches in the Crimean Astrophysical Observatory

10-20 - 10-50  Coffee break

SECTION 1  Star formation and interstellar medium

Small Conference Hall

Morning session  Chairman  Boris M. Shustov

10-50 - 11-20  T.A. Movsessian
Collimation and propagation of jets from young stellar objects

11-20 - 11-40  I.S. Potravnov, V.P. Grinin, D.E. Mkrtichian, I.V. Sokolov
Spectra of young star with transient discs: HD166191 and RZ Psc

11-40 - 12-00  V. Akimkin
Coagulation of Charged Dust in Protoplanetary Disks

12-00 - 12-20  T. Yu. Magakian, T. A. Movsessian, H.R. Andreasyan
New powerful outburst of the unusual young star V1318 Cyg S (LkHa 225 S)

12-20 - 12-40  S. Dutta
Multiwavelength studies on galactic HII regions

12-40 - 13-00  Poster presentation

13-00 - 14-30  LUNCH

SECTION 2  Stellar atomospheres and Stellar magnetism

Main Conference Hall

Subsection  Chemical composition of stellar atmospheres

Morning session  Chairman  Tatyana A. Ryabchikova

10-50 - 11-10  E.A. Semenko
Hidden binaries among magnetic CP stars in two examples
October 5 (Wednesday)

11-10 - 11-30  S.A. Korotin, S.M. Andrievskiy, P. Bonifatsio, E. Kaffau
A grid of NLTE corrections for sulphur lines in atmospheres of
cold stars for the Gaia-ESO survey

11-30 - 11-50  E.I. Staritsin
The mechanism of increase of helium content in atmospheres of single
main-sequence B stars of early spectral classes

11-50 - 13-00  Discussion (poster presentation)

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13-00 - 14-30  LUNCH
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Subsection  Diversity of stars variability
Main Conference Hall

Evening session  Chairman Evgeny A. Semenko

14-30 - 14-50  M.A. Pogodin, S.E. Pavlovskij, N.A. Drake, N.G. Beskrovnaya,
Spectroscopic peculiarity of the Herbig Be star HD 259431

14-50 - 15-10  O.V. Kozlova
The unusual Herbig Ae star HD 179218. Results
of many-year spectroscopic and photometric monitoring

Spectroscopic study of the pulsating star V534Lyr

15-30 - 15-50  A.E. Tarasov
Be stars in open stellar clusters

15-50 - 16-10  B.N. Rustamov, Kh. M. Mikayilov, S.O.Medzhidova
Spectroscopic observations of WW Vul during 2008-2010 eclipse
Discussion

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16-10 - 16-30  Coffee break
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SECTION 3  Stellar activity
Conference Hall / Informatics Building

Morning session  Chairman Alexander V. Stepanov

10-50 - 11-10  I.Yu. Alekseev
Long-term spectral variability of the spotted star IN Com

11-10 - 11-30  Kholtynig A.F., Hubrig S., Dushin V.V., Fabrika S., Kostenkov A.E.
Fast spectral variations of OBA stars

11-30 - 11-50  D. Mkrtichian, V. Tsymbal, H. Lehmann
He I lines as an indicators of hot spots on mass-accreting
components of Algols

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October 5 (Wednesday)

11-50 - 12-10  V.B. Puzin  
Activity of the star FK Com: analysis of photometric and spectropolarimetric data of 2012-2016

12-10 - 13-00  Poster presentation and discussion

13-00 - 14-30  LUNCH

Evening session  Chairman  Roald E. Gershberg  
Conference Hall / Informatics Building

14-30 - 15-00  A.V. Stepanov, V.V. Zaitsev and P.V. Kronshtadtov  
On the origin of intense radio emission from the brown dwarfs

15-00 - 15-20  S. O. Kiikov  
Magnetocavitation mechanism for the mass ejection from the atmosphere of the red dwarf

15-20 - 15-40  K.V. Bychkov  
The cause of nonsteady filling of hydrogen levels behind the shockware front under conditions of stellar atmospheres

15-40 - 16-00  Yu.A. Perepelitsyna, S.A. Pustilnik  
Variability of DDO68-V1, the unique extremely metal-poor LBV

16-00 - 16-30  Coffee break

16-30 - 16-50  A.A. Shlyapnikov  
Flare activity of stars from the GTSh-10 catalog

16-50 - 17-10  G.M. Beskin  
Polarimetric observations of flaring stars on Russian 6-m telescope

17-10 - 17-30  L.A. Pustilnik  
Stellar and solar flares energy release – inner contradictions, conflict with observations – possible solutions.

17-30 - 18-30  Discussion

SECTION 4  Multiple stellar systems and exoplanets  
Small Conference Hall

Evening session  Chairman  Yuri Yu. Balega

14-30 - 14-50  A.E. Dudorov, O.V. Eretnova  
Type T Tau spectroscopic binaries

Determination of low-massive star multiplicity. Detection of the binary nature of the star J1158+4239
October 5 (Wednesday)

15-10 - 15-40  O.Yu. Malkov  
Binary star database BDB

15-40 - 16-00  S.A. Lamzin, O.V. Vozyakova, K.N. Grankin, A.V. Dodin, K.L. Malanchev,  
A.E. Nadzhip, B.S. Safonov, A.M. Tatarinikov, D.V. Cheryasov, G.A. Chountonov,  
D.N. Shakhovskoy, V.I. Shenavrin  
Anomalous eclipses of the young star RW Aur A

16-00 - 16-30  Coffee break

Chairman Oleg Yu. Malkov

16-30 - 16-50  L. Hambalek  
Quadruple star V2610 Oph

16-50 - 17-10  D.N. Rustamov  
Discrete absorption components in the core of line H-alpha in the spectrum of  
spectral binary HD 206267

17-10 - 17-30  Yu.V. Pakhomov, N.A. Gorynya  
PZ Mon – a synchronous type RS CVn variable binary with  
the minimal ratio between component masses and excess of s-elements

17-30 - 18-00  Poster presentation

19-00 DINNER
October 6 (Thursday)

PLENARY SESSION

Main Conference Hall

Chairman Yuri Yu. Balega

09-00 - 09-40   Yu.N. Gnedin
   The future of X-ray astronomy: polarization of hard electromagnetic emission of
   black holes of stellar masses in close binaries

SECTION 6   Methods and instruments of the stellar astrophysics

Main Conference Hall

Chairman Yuri Yu. Balega

09-40 - 10-00   Yu.V. Pakhomov, N.E. Piskunov, T.A. Ryabchikova
   VALD3: the nearest prospects

10-00 - 10-20   N.E. Piskunov, T.A. Ryabchikova, Yu.V. Pakhomov,
   T.M. Sitnova, S.A. Alekseeva, L.I. Mashonkina, T. Nurdlander
   A software complex for analysis of high-resolution stellar spectra

10-30 - 11-00   Coffee break

11-30 - 17-00   Picnic

19-00 DINNER

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### SECTION 2 Stellar atmospheres and magnetism

#### Subsection Stellar magnetism

**Main Conference Hall**

**Morning session**

**Chairman Dmitry O. Kudryavtsev**

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<th>Presenters</th>
<th>Title</th>
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<tr>
<td>9:00 - 9:30</td>
<td>I.I. Romanyuk, E.A. Semenko, I.A. Yakunin, D.O. Kudryavtsev</td>
<td>Magnetic stars in young clusters and associations</td>
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<tr>
<td>9:30 - 10:00</td>
<td>Z. Mikulasek, J. Krticka, J. Janik, M. Zejda, G.W. Henry, M. Jagelka, E. Paunzen</td>
<td>On the nature of rotational period variability of magnetic stars</td>
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<td>10:00 - 10:20</td>
<td>D. Baklanova, D. Mkrtichian, S. Plachinda, A. Baklanov</td>
<td>Detection of weak magnetic field in the high amplitude Delta Scuti type star 1 Monocerotii</td>
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<td>10:20 - 10:40</td>
<td>V.V. Butkovskaya, S.I. Plachinda, D.N. Baklanova, N.F. Pankov</td>
<td>Magnetic field of solar-like star beta Aql: the study by individual spectral lines</td>
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**Coffee break**

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**Chairman Zdenek Mikulasek**

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<tr>
<td>11:10 - 11:30</td>
<td>S. Plachinda, D. Baklanova, V. Butkovskaya, N. Pankov</td>
<td>Magnetic field measurements on spotted yellow dwarf DE Boo during 2001-2004 years</td>
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<td>11:30 - 11:50</td>
<td>V.D. Bychkov, L.V. Bychkova, Yu. Madej</td>
<td>A catalog of average magnetic curves of stars</td>
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<td>12:10 - 12:30</td>
<td>A.I. Kolbin, A.I. Galeev, D.O. Kudryavtsev</td>
<td>Analysis of spectra and photometry of cold young magnetoactive stars</td>
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<tr>
<td>12:30 - 12:50</td>
<td>A.S. Medvedev, A.F. Kholtygin</td>
<td>Evolution of magnetic fields and magnetic fluxes in massive stars</td>
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### SECTION 4 Multiple stellar systems and exoplanets

**Small Conference Hall**

**Morning session**

**Chairman Oleg Yu. Malkov**

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<tr>
<td>9:00 - 9:20</td>
<td>I.S. Izmailov, E. A. Roshchina, M.Yu. Khovrichev</td>
<td>Can wide triple stellar systems be flat?</td>
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October 7 (Friday)

9-20 - 9-40 E.N. Sokov, I.A. Sokova, V.V. Dyachenko, D.A. Rastegaev, S.A. Rusov
The detected timing of the exoplanets TrES-5b. Possible existence of
the planet TrES-5cT.V.

9-40 - 10-00 G.G. Valyavin
Exoplanet studies at the SAO

10-00 - 10-40 Poster presentation

10-40 - 11-10 Coffee break

SECTION 6 Methods and instruments of the stellar astrophysics

Morning session Chairman Petr P. Petrov Conference Hall / Informatics Building

9-00 - 9-20 N.I. Bondar, M.A. Gorbunov, N.V. Elizarova, A.N. Rublevskiy, A.A. Shlyapnikov
Analysis of the results of "Academician G.A. Shain's project" by means of
the virtual observatory

9-20 - 9-40 I.V. Afanasieva
Software architecture design for digital image acquisition systems

9-40 - 10-00 V.E. Panchuk, Yu.B. Verich, V.G. Klochkova, M.E. Sachkov,
M.V. Yushkin, G.V. Yakopov, E.V. Emelianov
A suspended echelle spectrograph

10-00 - 10-20 V.E. Panchuk, Yu.B. Verich, V.G. Klochkova, M.E. Sachkov,
E.G. Sendzikas, M.V. Yushkin, G.V. Yakopov
An echelle spectrograph with the Fabry-Perot interferometer in the inner mounting

10-20 - 10-40 Discussion

10-40 - 11-10 Coffee break

13-00 - 13-30 CONFERENCE SUMMARY Main Conference Hall

13-30 - 15-00 LUNCH

15-00 - 18-00 Excursions

19-00 DINNER