

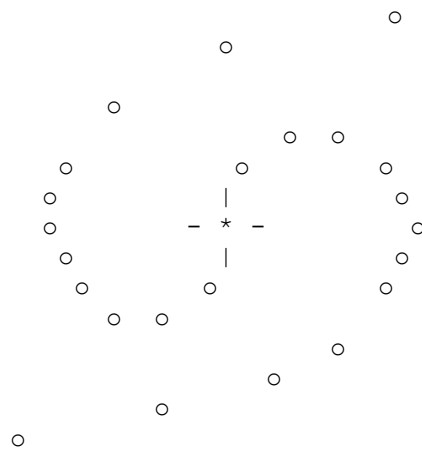
ArAS News

NEWSLETTER OF THE
ARMENIAN ASTRONOMICAL SOCIETY (ArAS)

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Editor: Lilit Hovhannisyan

The ArAS Newsletter in the INTERNET: <http://www.aras.am/arasnews.html>



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JENAM-2007 IN ARMENIA

The Joint European and National Astronomy Meeting (JENAM) in 2007 took place on August 20-25 in Yerevan, Armenia. It was the 15th annual meeting of the European Astronomical Society (EAS) and the 6th annual meeting of the Armenian Astronomical Society (ArAS). JENAM-2007 consisted of 6 Plenary sessions, 8 EAS symposia and 5 special sessions. In addition, the EAS General Meeting was held on August 22, and the EAS Council Meeting was held on August 21. JENAM-2007 was organized by EAS, ArAS, the Yerevan State University (YSU, the venue of JENAM), and the Byurakan Astrophysical Observatory (BAO). The international Scientific Organizing Committee (SOC) had 16 members from 10 countries, including the EAS and ArAS leaders and most of the chairmen of the EAS symposia and JENAM special sessions:

Harvey Butcher (Netherlands)
Anatol Cherepashchuk (Russia)
Thierry Courvoisier (Switzerland)
Michel Dennefeld (France)
Anne Dutrey (France)
Hayk Harutyunyan (Armenia)
Joachim Krautter (Germany), Co-chair
Tigran Magakian (Armenia)
Michel Mayor (Switzerland)
Areg Mickaelian (Armenia), Co-chair
Antonella Natta (Italy)
Artashes Petrosian (Armenia)
Ian Robson (UK)
David Sedrakian (Armenia)
Yervant Terzian (USA)
Yaroslav Yatskiv (Ukraine)

The Local Organizing Committee (LOC) consisted of 11 members from YSU and BAO, most of them being ArAS members: A.M. Mickaelian (Chair), A.K. Avetissian (YSU), S.A. Ghazaryan (YSU), H.A. Harutyunyan (BAO), S.G. Harutyunyan (YSU), E.R. Hovhannisyan (BAO), L.R. Hovhannisyan (BAO), N.D. Melikian (BAO), A. Melkonian (BAO), A.A. Sadoyan (YSU), L.A. Sargsyan (BAO). There was also a LOC supporting team consisting of nearly 40 students from YSU, Brusov Linguistic University, and other institutes.

The EAS symposia lasted 2 days each, and the JENAM special sessions, 1-2 days each. In addition, some 116 posters were displayed in the exhibition/poster/coffee break area during the whole week. 79 invited and 157 contributed talks were given on various topics of astrophysics, involved in the following EAS symposia and special sessions.

PLENARY SESSIONS

P1: Michel Mayor (Geneva Observatory, Switzerland): Searching for earth type planets
P2: Guy Monnet (ESO, Germany): Status of the European Extremely Large Telescope Programme
P3: Massimo Turatto (Padua Astronomical Observatory, INAF, Italy): Supernovae
P4: Michael Smith (Univ. of Kent, UK): Astrophysical jets and beams
P5: Felix Aharonian (DIAS, Dublin / MPIK, Germany): The Very High Energy Gamma Ray Sky
P6: Vahe Petrosian (Stanford University, USA, TBC): Particle Acceleration

EAS SYMPOSIA

EAS S1: Extrasolar Planets (Chair: Michel Mayor, Switzerland)
EAS S2: Stellar Evolution and Asteroseismology (Chair: Georges Alecian, France)
EAS S3: Violent Phenomena in Young Stars (Chair: Tigran Magakian, Armenia)
EAS S4: High-Energy Astrophysics: the keV-TeV connection (Chair: Thierry Courvoisier, Switzerland)
EAS S5: Activity in Galaxies (Chair: Ian Robson, UK)
EAS S6: Dynamics of Galaxies and Galactic Nuclei (Chair: Rainer Spurzem, Germany)

EAS S7: Cosmology: New Facts and New Problems (Chair: Haik Harutyunian, Armenia)

EAS S8: Science with Virtual Observatories (Chairs: Andrew Lawrence, UK and Areg Mickaelian, Armenia)

JENAM-2007 SPECIAL SESSIONS (SPS)

SPS1: European Large Facilities for Astronomy (Chair: Michel Dennefeld, France)

SPS2: Numerical Astrophysics (Chair: Avetis Sadoyan, Armenia)

SPS3: Gravitational Wave Astrophysics (Chair: David Sedrakian, Armenia)

SPS4: Astronomy from the Antarctic plateau (canceled)

SPS5: Astronomy Education in Europe (Chair: Magda Stavinschi, Romania)

SPS6: Archaeoastronomy (Chair: Magda Stavinschi, Romania)

YSU central and physics department buildings were used for all meetings and events: 2 meeting halls at the central building and 3 meeting halls at the Department of Mathematics, as well as the exhibition/poster and coffee breaks areas at the central building, secretariat, computer room, and press centre at the departments of Physics and Mathematics.

The official opening of JENAM-2007 took place in the YSU central meeting hall. Welcome speech of the YSU rector was presented. Yuri Chilingarian (NAS RA), Joachim Krautter (EAS President), Nerses Yeritsyan (Minister of Trade and Economic Development), Anthony Cantor (UK Ambassador), Massimo Lavezzo Cassinelli (Italian Ambassador), Haik Harutyunian (BAO Director), David Sedrakian (Editor-in-Chief of Astrofizika journal) welcomed the participants.

248 participants from 31 countries took part in JENAM-2007, including 79 from Armenia, 25 Germany, 24 France, 21 Russia, 17 Italy, 15 Spain, 10 UK, 6 Ukraine, 5 Greece, Switzerland, and USA, 4 Iran and Netherlands, 3 Czech Republic, etc.

The European Southern Observatory (ESO), Euro-VO project, Springer Verlag publishing house, UK Embassy in Armenia, HSBC bank, and other companies held exhibitions during JENAM-2007, as well as some companies inserted their info booklets in the participants satchels (EDP Sciences, Taylor and Francis, etc.). The social program was rather rich: the participants visited Yerevan Brandy Company and BAO (with an open-air joint dinner) on Wednesday, August 22, had a unforgettable banquet in the Ashtarak Dzor restaurant on Friday, August 24, had joint excursions to Armenian sightseeing on Saturday, August 25, as well as many participants took social tours during the working week when they were free from JENAM sessions. The tours included visits to Echmiatzin, Garni/Geghard, Lake Sevan, Khor Virap/Noravank/Karahunge, and Mt. Aragatz. Some participants who stayed in Armenia longer (before and after JENAM) had longer duration tours to Southern and Northern Armenia, a tour around Lake Sevan and Kharabakh (Artsakh).

JENAM-2007 was supported by 13 sponsors, as well as by an information sponsor and partner:

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"Armenpress" news agency, information sponsor

ArMedia, information partner

Contributions from the Armenian participants

Abrahamyan Hayk Galaxy	Armenia, YSU	S5	poster	Multi-Investigation of Distant Radio
Abrahamyan Martin Adibekyan Vardan	Armenia, YSU, General Physics Armenia, YSU, Astrophysics regions in Kazarian galaxies	S5	poster S5 poster	On the Astrophysical Jets The spectral investigation of several HII
Aharonian Felix Alaverdyan Grigor	Germany, MPIK Armenia, YSU, Radiophysics	S4	Plenary invited poster	The Very High Energy Gamma Ray Sky Neutron stars with a quark core in the relativistic
Alecian Georges	France, Paris-Meudon	S2	invited	The COROT satellite and its first glances to the stars
Amirkhanian Artur	Armenia, BAO	S4	poster	Nor-Amberd Optical mini-observatory for detection of energetic Transient events (NOMOT)
Andreassian-Thomas Nora Andreasyan Ruben	USA, Univ. Virgin Islands Armenia, BAO	S6	oral	3-Dimensional Distribution of Galactic Magnetic Field
Arshakian Tigran	Germany, MPIFR LOFAR and the SKA		SPS1 oral	Exploring cosmic magnetism with
Asatrian Norayr	Armenia, BAO	S5	oral	Rapid profile variations in the broad hydrogen emission lines of Seyfert galaxy Markarian 6 and radio galaxy 3C390.3: Possible evidences for an accretion disk with macro-turbulence in AGN
Avetissian Ara	Armenia, YSU, Astrophysics	S4	poster	High Energy Radiative Transfer Processes in the Superdense Degenerate Plasma
Avetissian Ara	Armenia, YSU, Astrophysics	S4	poster	On Cosmological Variability of Fundamental Constants
Avetissian Ara	Armenia, YSU, Astrophysics	S7	oral	A New Theoretical Model of Big-Bang Evidence as a Consequence of Global Symmetry Breakdown
Avetissian Ara	Armenia, YSU, Astrophysics	SPS5	oral	New Master Program of Astrophysics and Specialization Courses for Matriculates of the Yerevan State University
Broutian Grigor	Armenia, BAO	SPS6	oral	The beginning and evolution of the concept of stellar associations in the works of Viktor Ambartsumian
Chilingarian Ashot	Armenia, YerPhI	S4	poster	Research of the Galactic Cosmic Rays from "knee" till "cutoff" (10^{16} - 10^{19}) eV at Aragats Cosmic Ray Observatory
Chilingarian Ashot	Armenia, YerPhI	S4	poster	Studies of the Energy Spectra of incident cosmic radiation by the networks of particle detectors
Chilingarian Igor	France, Paris	S6	oral	Embedded Structures and Young Nuclei in dE Galaxies: 3D Spectroscopic View
Chilingarian Igor	France, Paris	S8	oral	Discovery of Compact Elliptical (cE) Galaxies with the Virtual Observatory
Chilingarian Igor	France, Paris	S8	poster	Some VO Implementations in VO Paris Data Centre - I
Chilingarian Igor	France, Paris	S8	poster	Some VO Implementations in VO Paris Data Centre - II
Chilingarian Igor	France, Paris	S8	poster	Some VO Implementations in VO Paris Data Centre - III
Egikian Anahit	Armenia, BAO	S6	poster	A comprehensive study of Shahbazian compact groups of galaxies (SHCGs)
Erastova Lida	Armenia, BAO	S4	poster	Study of Long-Term Variability of ON 231
Erastova Lida	Armenia, BAO	S5	poster	Active Dwarf Galaxies as Circumnuclear Regions of LSB-galaxies
Gigoyan Kamo	Armenia, BAO		S2 oral	Cool Carbon Stars in the Galactic Halo
Gigoyan Kamo	Armenia, BAO the DFBS Database	S8	oral	Search and Study of Extremely Red Objects in
Gyulzadyan Marieta	Armenia, BAO	S5	poster	On the relation of SBS galaxies with Zwicky clusters
Hajyan Gevorg Hakobyan Artur	Armenia, YSU, Radiophysics Armenia, BAO	S4 S5	poster poster	About Stability of Strange White Dwarfs Statistical investigation of Core-Collapse Supernovae and their host galaxies
Hakobyan Ashot activity	Armenia, BAO		S3 poster	Long-time variation of flare stars
Hakobyan Ashot	Armenia, BAO	S3	poster	SNe explosions frequency distribution function
Hakobyan Ashot Hakopian Susanna	Armenia, BAO	S5	oral	On the X-ray radiation of M87 2D-spectroscopy of two SBS galaxies with starformation regions
Hambaryan Valeri	Germany, AIP Newton observations	S3	oral	"Unusual" X-ray flares discovered in XMM-
Harutyunian Haik	Armenia, BAO	S7	invited	On the Nature of cD Galaxies: Some Musings on their Role in the Cluster Formation Process
Harutyunian Haik	Armenia, BAO	SPS5	oral	Astronomy Education in Armenia
Harutyunian Haik	Armenia, BAO	SPS6	oral	Armenian Names of the Planets
Harutyunyan Avet	Italy, Padova	S5	oral	Classification and analysis of 30 Supernova spectra
Hayrapetyan Mekhak	Armenia, YSU, General Physics	SPS3	poster	Glitch-Induced Gravitational radiation from Isolated Oscillating Neutron Stars

Hayrapetyan Tamar	Armenia, Institute of History	S7	poster	Calendar and astronomical ideas in Armenian magic fairy tales
Herouni Paris	Armenia, Radio Measurements in the Universe	S7	poster	Experiments are showing: It was never a Big Bang
Herouni Paris	Armenia, Radio Measurements Armenia	SPS6	oral	The oldest in the World Stone Observatory in Armenia
Hovhannissian Elena	Armenia, BAO	S3	poster	2D spectroscopy of HH588 large-scale outflow
Hovhannissyan Lilit	Armenia, BAO in Bootes	S2	oral	Optical Identification and Study of Infrared Sources
Hovhannissyan Lilit	Armenia, BAO Database	S8	oral	Search and Study of Variable Objects in the DFBS
Iskudarian Sofik	Armenia, BAO of Astroparticle Physics	S7	poster	New Approaches in Astrophysics Gave the Birth
Israeliian Garik	Spain, IAC exoplanets	S1	invited	Abundances of chemical elements in stars with exoplanets
Kandalian Rafik	Jordan, Al Al-Bayt University			
Khalatyan Arman	Germany, AIP	S6	invited	AGN influence on galaxy type and morphology
Khangulyan Dmitry	Germany, MPIK	S4	oral	On the physics of the VHE emission in LS 5039
Krikorian Ralph	France, IAP			
Magakian Tigran	Armenia, BAO		S3	invited 60 years of YSO studies in Byurakan
Martirosyan Zhaklin	Armenia, YSU, Astrophysics	S5	poster	Infra-red and radio features of galaxies with UV-excess
Melkonyan Anahit	Armenia, YerPhl method	SPS2	poster	On the analysis of output information of S-tree
Mickaelian Areg databases	Armenia, BAO		S8	invited Science based on spectroscopic
Mickaelian Areg	Armenia, BAO Observatory	S8	oral	Science projects with the Armenian Virtual Observatory
Mirzoyan Razmick	Germany, MPP the 17m Diameter MAGIC Telescope	S4	oral	Highlights of VHE Gamma Ray Observations with
Movsessian Tigran	Armenia, BAO	S3	oral	2D spectroscopy of jets from YSOs
Nikogossian Elena	Armenia, BAO	S3	oral	Two neighbor FUor-like objects in Cygnus
Ohanesyan Juleta	Armenia, BAO A-Stars	S2	poster	The Behavior of Resonance Doublet 2800 MgII in
Ohanian Gabriel	Armenia, BAO	S5	poster	Radio Source Evolution and Intrinsic Redshifts
Paronyan Gurgen	Armenia, YSU, Astrophysics	S5	poster	Multi-Frequency Investigation of Distant QSO
Parsamian Elma	Armenia, BAO	SPS6	oral	Ancient Astronomy in Armenia
Petrosian Artashes	Armenia, BAO	S5	oral	The NGP +30deg zone galaxies. I. Comparative study of the galaxies with different nuclear activity
Petrosian Vahe	USA, Stanford University		Plenary	invited Stochastic Particle Acceleration by Plasma Turbulence
Petrosian Vahe	USA, Stanford University		S7	invited Gamma-Ray Bursts and
Petrosian Vahe	USA, Stanford University		S7	invited Gamma-Ray Bursts and
Cosmology				
Sadoyan Avetis	Armenia, YSU, General Physics	SPS3	invited	Gravitational Waves from Isolated White Dwarfs
Sahakyan Karen	Armenia, Russian-Arm. State Univ.		SPS2	poster A numerical method for
Sahakyan Karen	Armenia, Russian-Arm. State Univ.	SPS2	poster	Simultaneous approximation of coordinates, velocities and accelerations of celestial bodies
Sargsyan Lusine	Armenia, BAO Observed by Spitzer	S5	oral	Study of Extremely High IR/opt Flux Ratio Objects
Sarkissian Alain	France, Service d'Aeronomie	S8	poster	Asteroid Search with the DFBS
Sarkissian Alain	France, Service d'Aeronomie	S8	poster	Simple Spectral Access VO application on the Digitized First Burakan Survey
Sedrakian David	Armenia, YSU, General Physics		SPS3	invited Gravitational Waves from Millisecond
Pulsars				
Sedrakian David	Armenia, YSU, General Physics	SPS3	oral	Toroidal Magnetic Field in Pulsars
Shahabasyan Karen	Armenia, YSU, General Physics and Oscillating White Dwarfs	SPS3	invited	Gravitational Radiation from Differentially Rotating
Shahverdian Ashot	Armenia, Inf. & Autom. Problems	S1	oral	Splitting the quasiperiodic orbits and some basic
Shahverdian Ashot	Armenia, Inf. & Autom. Problems	SPS2	poster	Splitting the segment and the circle and some constants in quantum and celestial mechanics
Sinamyman Parandzem	Armenia, BAO	S2	oral	The Nature of the FBS Blue Stellar Objects
Sinamyman Parandzem	Armenia, BAO	S8	oral	Search and Study of UV-Excess Objects in the DFBS Database
Tokhatyan Karen	Armenia, Institute of History	SPS6	oral	Ancient Astronomical Knowledge and Rock Art in Armenia
Tovmassian Gagik	Mexico, UNAM			
Vardumyan Gohar	Armenia, Archaeo. & Ethnography	SPS6	oral	Celestial Bodies in Ancient Armenian Mythology
Yeghiazaryan Anahit	Armenia, BAO 6384	S5	poster	HII Region Population of the Spiral Galaxy NGC
Zamkotsian Frederic	France, Marseille	SPS1	oral	MOEMS devices for future astronomical instrumentation on ground and in space

ANNIVERSARIES

Grigor GURZADYAN – 85

Grigor Gurzadyan was born on October 15, 1922 in Baghdad. Upon graduating the Yerevan Polytechnic Institute in 1944, he became the postgraduate of Victor Ambartsumian, who had just moved to Armenia. He defended his Ph.D. in 1948 and became doctor of Science in 1955. Being in Ambartsumian's founding team of Byurakan observatory, he later headed a Laboratory, in 1960s became deputy director of the observatory for space research. He headed the branch of Byurakan observatory on space research, Garni space astronomy laboratory (later Institute, 1992-2004). He is among the pioneers of space astronomy. In 1960s he directed the UV and X-ray observations of sun and stars using ballistic rockets R-5, the first launch being on February 15, 1961 from Kapustin-Yar base. Spectra of thousands of stars to as faint as 13th magnitude were obtained. In April, 1971, the first space station Salyut 1 carried into orbit Orion 1, the first space telescope with an objective prism.

Gurzadian authored theoretical papers on planetary nebulae, interstellar matter, and flare stars. In 1990s he developed the theory of common chromospheres (roundchromes) of close binary stars and of evolution of binary globular clusters.

For decades he lectured in Yerevan State University (theoretical astrophysics) and in Polytechnic Institute (precise mechanics). He has published over 200 papers and a number of monographs, including "Radioastrophysics", "Planetary Nebulae", "Flare Stars", "Stellar Chromospheres", "Physics and Dynamics of Planetary Nebulae", "Theory of Interplanetary Flights", "Space Dynamics".

Gurzadian is a member of the Armenian Academy of Sciences (1986, corresponding member from 1965).

Agop TERZAN - 80

Famous Armenian astronomer Agop Terzan was born on October 31 1927 in Istanbul. He got his Bachelor degree on Mathematical and Astronomical Science in 1945 and Masters on Astronomy in 1949. He defended his PhD degree in 1965 at Lyon University. During 60s he discovered 710 variable stars in the immediate vicinity of 14 globular clusters. Later he discovered 11 new globular clusters, 158 diffuse nebulae, 124 galaxies, from which 25% appeared to be active galaxies of Sy2 type. In direction to the Galactic center Terzan discovered 4430 new variable stars, including 458 ones identified later with the IRAS sources. Another large work was the discovery of 1428 high proper motion stars ($\mu > 0".1$ per year).

Terzan is a member of French National Astronomy Committee, International Astronomical Union (IAU) and a number of other international organizations. Among his numerous awards and honors are Henry Rey price of the French Astronomical Society and a number of medals. Agop Terzan has visited Armenia many times including his official missions to Byurakan in 1971, 1973, 1977, 1984, and 1989. He has published more than 100 papers on the above mentioned subjects.

Vagharshak SANAMIAN - 90

Vagharshak Sanamian was born in 1917 in Karabagh. After finishing the local school he moved to Yerevan, where he applied for the Yerevan State University, Department of Engineering-Mathematics. Soon, after the application, the First World War began and he was called to serve in the Soviet army. During his service he managed to get theoretical courses at radio-locational department at the Military Electrical-Technical Academy after S.M. Budyony in Leningrad. In 1946 he returned from the army and graduated from the Yerevan State University Department of Engineering-Mathematics. He had worked from 1949 to 1950 at the Yerevan State University at the Mathematical Department. Starting from 1950 he was at Byurakan Observatory as a senior researcher. In 1957 he defended PhD thesis on radio astronomy and his supervisor was famous Russian radio astronomer S.E.Khaikin. For number of years he supervised radio astronomical studies in Byurakan Astrophysical Observatory. He participated in a number of international collaborations including collaboration between BAO and Indian Astronomical Centers. He worked on flare stars, Sun and Markarian galaxies, Herbig-Haro Objects and other important radio sources. He also worked for a number of years Institute of Radiophysics and Electronics in Ashtarak. He is an ArAS member from 2005.

Arthur AMIRKHANIAN - 60

Artur Amirkhanian was born on July 20 1947 in Port-Artur. He started working at Byurakan Astrophysical Observatory from 1975. He was the head of the laboratory of 2.6 m telescope. He defended his PhD degree 1989, under E.Ye.Khachikian supervision. His main research area includes groups and clusters of galaxies in particular Shahbazian compact groups of compact galaxies. He published about 26 scientific papers.

Ashot HAKOPIAN - 50

Ashot Hakopian was born on 11 August 1957 in Yerevan. In 1979 he has graduated from the Yerevan State University department of physics and the same year he started working at Byurakan Astrophysical Observatory. Since 2000 he lectures at the Yerevan State University different courses. He has published a number of scientific papers. His main research area includes statistical studies of variable stars.

CALL FOR ARAS ANNUAL PRIZE FOR YOUNG ASTRONOMERS

ArAS fourth Annual Prize for Young Scientists will be awarded at the end of this year. As in previous years, the prize will be awarded to a young scientist under 35 working in astronomy or related field and showing significant results in research and/or other scientific activities connected anyhow with the Armenian astronomy. Nominations may be made by members or any research organization from Armenia or elsewhere and should be sent to one of the ArAS Co-Presidents. They should include personal data for the nominee and a brief description of his/her achievements during the year, including important scientific results, all published papers, participation in meetings, given talks, etc., whatever is considered to be important. The deadline for applications is December 1. The selection will be made by a special committee and the results will be announced in the last issue of ArAS Newsletter at the end of each year. A diploma and sum of \$100 will be awarded to the winner. As in the previous years, the ArAS Co-President Prof. Yervant Terzian is sponsoring the annual Prize for Young Scientists in 2007, too.