



Institute of Applied Problems of Physics of National academy
of sciences of Republic of Armenia (IAPP NAS RA)

IV International Scientific School for Radiation Physics and
Related Applications named after Academician Alpic
Mkrtchyan

Yerevan – Armenia, 16-21 June 2025

Director: S.B. Dabagov, Chairman: V.R. Kocharyan



Alpic School for Radiation Physics - ASRP 2025

IV International Scientific School for Radiation Physics and Related Applications named
after Academician Alpic Mkrtchyan

Yerevan – Armenia

16-21 June 2025

Organized by

Institute of Applied Problems of Physics of NAS RA

under sponsorship by

Higher Education and Science Committee

of the RA Ministry of Education, Science, Culture and Sports

in cooperation with

Istituto Nazionale di Fisica Nucleare – Laboratori Nazionali di Frascati

The series of the International Scientific School named after Academician Alpic Mkrtchyan organised by the Institute of Applied Problems of Physics of National academy of sciences of Republic of Armenia (IAPP NAS RA) in collaboration with other world research facilities and research initiatives is devoted to the common discussion on advances in physics: radiation processes in materials, coherent/incoherent interaction of relativistic and nonrelativistic particles in various mater and structures, from solid amorphous and crystalline to laser and plasma based ones, propagation and scattering of acoustic waves in different media. The school is intended for young scientists and is planned to be held annually. For the first time it was organized in 2022 in the city of Sevan and generated significant interest from the international scientific community, particularly among acoustic physicists and young researchers. The school-conference was attended by about twenty advanced scientists and more than fifty students from five countries. During the activities of the scientific school-conference students get acquainted with the intensively developing areas of acoustic physics, gain experience in conducting scientific discussions and reports, and also with applied developments introduced at the institute and other scientific organizations of the Republic of Armenia. The school-conference contributes to the creation of new international and republican collaborations in the field of science and education, as well as encourages young scientists to engage in science. The II and III International Scientific School-Conferences was held in Yerevan and Sevan on June 12–17, 2023 and June 24–28, 2024 respectively. The proceedings of the school–conferences were published in the Journal of Physics: Conference Series (volume 2657, 2023 and volume 2924, 2024).

The International School for Radiation Physics and Related Applications named after Academician Alpic Mkrchyan - ASRP is an annual event organized for the purpose of bringing together world known experts in radiation physics and applications and under/postgraduate students and young researchers to share interests and knowledge in these fields.

ASRP 2025 is the 4th edition of the School being organized by the Institute of Applied Problems of Physics NAS RA to be held in Yerevan, the capital of Armenia, in the period of June 16-21, 2025.

ASRP is devoted to current trends and potential future issues involving ionizing radiation. The technical sessions of the school include invited lectures by leading experts in their fields, as well as contributed oral presentations by young researchers within the main meeting topics:



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- *Interactions of Particle and Radiation Beams in Various Media*
- *Ionizing Radiation Sources and Related Applications*
- *Particle and Radiation Beams Spectroscopy*
- *Propagation and Scattering of Acoustic Waves in Different Media*
- *Acoustic Waves in Radiation Processes and Materials Science*
- *Radiation Technologies in Archeology, Medical Physics, Environmental Science and Astronomy – Functional Materials and Crystal Growth*

Selected original articles will be published in the journal "Radiation Physics and Chemistry" as a special issue composed by selected contributions of the ASRP 2025 School.

Programme Committee

P.A. Aleksandrov, V.A. Bushuev, D. Blaschke, A.S. Gogolev, L.Sh. Grigoryan, S.B. Dabagov (Director), P.V. Karataev, V.R. Kocharyan (Chairman), A.H. Melikyan, A.H. Mkrtchyan, A.P. Potylitsyn, D.V. Roshchupkin, A.A. Saharian, W.K. Saryan, H.A. Sarkisyan, A.V. Targonskiy

Organizing Committee

A.K. Atanesyan, D.E. Bagdasaryan, S.B. Dabagov, A.A. Danghyan, H.F. Khachatryan, V.Kh. Kotanjyan, Yu.M. Cherepennikov, G.V. Margaryan, V.V. Margaryan, A.M. Mamyanyan, M.S. Vasilyan

Conference Secretaries

M.S. Vasilyan, G.V. Margaryan

Lecturers

Bradley D.	University of Surrey, London
Curcio A.	Sapienza University, Rome
Giulietti D.	University of Pisa, Pisa
Ghigo A.	National Institute of Nuclear Physics, Frascati
Gogolev A.	Tomsk Polytechnic University, Tomsk
Goray L.	SPbAU RAS, Saint Petersburg
Grigoryan L.	IAPP NAS RA, Yerevan
Karataev P.	Royal Holloway, University of London, London
Mkhitarian S.	IAPP NAS RA, Yerevan
Mkrtchyan A.	IAPP NAS RA, Yerevan
Petrosyan A.	IAPP NAS RA, Yerevan
Potylitsyn A.	Tomsk Polytechnic University, Tomsk
Saharyan A.	Yerevan State University, Yerevan
Sarkisyan H.	IAPP NAS RA, Yerevan
Suliman A.	King Saud bin Abdulaziz University, Riyadh
Targonsky A.	NRC KI, Moscow
Truni K.	IAPP NAS RA, Yerevan
Zimmermann F.	CERN, Geneva



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Preliminary timetable

	<i>Date</i>	<i>Morning</i>	<i>Afternoon</i>	<i>Evening</i>
<i>Yerevan</i>	<i>Sunday</i>	<i>June 15</i>	Arrival	Welcome Party
	<i>Monday</i>	<i>June 16</i>	Registration & Opening Lectures	Lectures
	<i>Tuesday</i>	<i>June 17</i>	Lecture Sessions	Celebration of IAPP 45 th Anniversary
<i>Visiting Section</i>	<i>Wednesday</i>	<i>June 18</i>	Departure for Visiting Section & Excursion	
	<i>Thursday</i>	<i>June 19</i>	Student Oral Sessions	
	<i>Friday</i>	<i>June 20</i>	Student Oral Sessions	
			"Best Student Presentation" Award	
				Dinner
	<i>Saturday</i>	<i>June 21</i>	Closing	Departure

Abstracts

Authors wishing to present a contribution(s) should submit an Abstract(s) electronically to ASRP 2025 - Alpic School for Radiation Physics Organizing Committee before May 15, 2025.

Guidelines: one page A4 format Microsoft Word, Times New Roman, one and a half empty lines, the title centered at the top of the page (bold type 16pt.), author's names (centered 14pt.), affiliation and complete address (centered 12pt), text of abstract (justified 12pt.). The name of the person presenting the contribution should be underlined and supplied by e-mail address (in footnote). Margins of 2.5 cm should be applied. Tables and black and white figures or drawings are possible, if unavoidable. Final version in the Book of Abstracts will be reduced to A5 format (<https://school.iapp.am/publications/rules/>). The Program Committee will decide about the acceptance of contributions by May 15, 2025. The authors will be informed about acceptance (oral or poster) of their contributions after May 15, 2025. The information concerning a poster format will be available on the school website.

Proceedings

The Selected original articles will be published in the journal "Radiation Physics and Chemistry" as a special issue composed by selected contributions of the ASRP 2025 School. The Materials should be submitted for publication a month after the conference directly to the journal. Instruction on the submission procedure with the open date and the deadline will be distributed shortly after the School and will be available on <https://school.iapp.am> websites. The papers are scheduled to be published in the 2025.

Transportation

Transportation from/to Zvartnots airport can be provided by the "ASRP 2025 - Alpic School for Radiation Physics" Organizing Committee. To ask for transportation one should contact organizing committee before June, 10.



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Accommodation

On the School website in the section Information→hotels you can find information about hotels
<https://school.iapp.am/information/hotels/>

Visa

- To enter the country you need a visa. Armenia has contracts on mutual visa-free visits with the CIS member states (without invitations), as well as with most of the European countries.
- Citizens of several dozen countries (including EU countries, Russia, Ukraine, China, etc.) enjoy visa-free visits to Armenia.
- To enter the country they need documents necessary for leaving abroad identifying they person outside of the country whose validity should be at least 3 months after they have departed from Armenia. Consular fees are not required.
- The visa is issued at the point of crossing the border or at the airport.
- The duration of the visa to Armenia is 90 days.
- For more detailed information visit <http://www.mfa.am/en/visa/>.

Important dates

Abstract submission	by May 15, 2025
Abstract acceptance	by May 20, 2025
Registration:	by June 15, 2025 (No registration fee)
Manuscript submission	since July 13, 2025 by September 15, 2025

Conference Venue & How to get to the Conference

ASRP 2025 - Alpic School for Radiation Physics will take place in the Institute of Applied Problems of Physics (IAPP) of NAS RA in Yerevan, at 25 Hr. Nersisyan Street. For special session out of IAPP the announcement will be done later on.

Contacts

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