

EDWARD V. CHUBARYAN

THE SCIENTIST, TEACHER AND ORGANIZER OF SCIENCE  
(on the occasion 80<sup>th</sup> anniversary)



Edward V. Chubaryan, theoretical physicist, one of the founders of the Armenian school of physics of superdense celestial bodies, Honored Scientist, Academician of NAS of Armenia, Doctor of Physical and Mathematical Sciences, Professor, Honorary Head of the Theoretical Physics Department of Yerevan State University, celebrated his 80<sup>th</sup> anniversary.

Professor Edward Chubaryan was born on May 5, 1936. In 1953 he left school № 20 named after Dzerzhinsky with honors and gold medal. In the same year he entered the Department of Physics of the Faculty of Physics and Mathematics of Yerevan State University. Still a student he was actively engaged in research work. His first scientific paper that became his thesis was devoted to the question of parity violation in the processes of  $\beta$ -decay a very topical issue in the 1950s. After graduating from the University, in 1958–1961 E. Chubaryan continued his postgraduate studies at the Department of Theoretical Physics. After defending his PhD thesis in 1964 he began working at the same department, first as a senior lecturer and from 1967 as an Associate professor and since the defense of his doctoral dissertation in 1972 he is a professor of the Chair of Theoretical Physics.

Edward Chubaryan's scientific research is devoted to thermodynamics of degenerate superdense matter and the theory of superdense celestial bodies, whose bases in the early 1960s were laid by academicians Victor Hambartsumyan and Gurgen Sahakian. For his research work in this field, in 1970, Edward Chubaryan

together with Davit Sedrakyan and Vladimir Papoyan was awarded the Prize of Lenin Komsomol. In subsequent years Edward Chubaryan together with the staff members of the Department of Theoretical Physics carried out a series of works devoted to the theory of pulsars, rotating magnetized neutron stars.

There is every reason to believe that in the case of extremely strong gravitational fields, Einstein's general theory of relativity needs a generalization. On this basis there have been a number of attempts at the Department of Theoretical Physics to study alternative theories of gravitation. In this respect, Edward Chubaryan's input into the development of bimetric theory of gravitation, Kaluza-Klein's projective theory and others is very important. A number of significant problems were solved within the framework of bimetric theory of gravitation. In particular, it has been shown how to self-consistently determine the background and curved metrics. With Prof. Chubaryan's direct participation models of static spherical, as well as those of stationary rotating stellar configurations were built, such integral parameters as the weight, the size, the quadrupole moments, etc. were calculated in the framework of bimetric gravitational theory. Analytic vacuum solutions of the corresponding field equations have been found, which are unique in the scientific literature.

Edward Chubaryan is the author of more than 150 scientific papers published in national and international journals. They were presented at many conferences, symposia, and received recognition of the scientific community.

E. Chubaryan is one of the authors (with academician Gurgen Sahakian) of the textbook "Quantum Mechanics" in Russian and Armenian languages, co-author of "Collected Problems in Theoretical Physics", as well as of "Collected Problems in Physics" for University entrants. E. Chubaryan plays a major role in the education of qualified physicists. He teaches a course in "Quantum Mechanics", as well as special courses in theoretical physics at the Faculty of Physics. Six PhD theses were defended under his supervision.

From 1991 to 2006, Professor E. Chubaryan, being the vice-rector of Yerevan State University for Natural Sciences, devoted much attention to the organization of educational process and actively participated in the reform of the university education. One cannot but mention his significant role in the formation and development of the Ijevan branch of Yerevan State University. The school education has not been left unattended either.

Chubaryan was the chairman of the educational-methodical council in physics of the USSR Ministry of Education, the chairman of the jury of the Republican School Olympiads in physics, and in 1984 the chairman of All-Union School Olympiad jury. On his initiative in secondary schools, particularly in schools with physical and mathematical bias, extensive work was carried out to identify the gifted students.

Professor Chubaryan's role in building up and strengthening the scientific links between the Joint Institute for Nuclear Research (Dubna, Russia) and the Physics Department of Yerevan State University is also noteworthy. Up to now graduates of the Faculty of Physics, Yerevan State University, specialists in Nuclear and Theoretical Physics, work at this Institute.

In addition to the fruitful scientific and pedagogical activity E. Chubaryan takes an active part in public activities. He is a board member of the Problem-solving Council in Physics of NAS of Armenia, a member of specialized councils for defense of doctoral dissertations, a member of the Academic Councils of Yerevan State University and of the Faculty of Physics.

Professor Chubaryan was a member of Editorial Board of the Scientific Journal of Yerevan State University (“Proceedings of the YSU”) almost 20 years 1990–2009, and was Editor in Chief of the journal in the hardest years 1990–1993.

Professor Chubaryan was awarded by: Khachatur Abovian Medal, Gold Medal of YSU, Medal of Nansen.

He was a Winner of Prize of Leninian Comsomol of Armenia for work “Stationary Axial-Symmetric fields in the Einstein Theory of Gravitation” in 1970.

Edward Chubaryan, an honest, direct and humble scientific worker, enjoys the confidence and affection of his students and colleagues. The hero of the day is full of strength, vigour and willingness to work actively. This is evidenced by the fact that during the last years he substantially revised and republished the textbooks “Quantum Mechanics” and “Problems in Quantum Mechanics”.

Our congratulations to Professor Chubaryan. We wish him health, longevity and success in all his.

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