

Anné, Colette (ed.); Roubtsov, Volodya (ed.)

The “supermathematics” and F. A. Berezin. (Les “supermathématiques” et F. A. Berezin.)
(French) [\[Zbl 1419.58002\]](#)

La Série T. Paris: Société Mathématique de France (SMF) (ISBN 978-2-85629-833-6/pbk). 149 p. (2018).

This is a memorial volume of Felix Alexandrovitch Berezin, who lived in the Soviet Union and died at the age of 49 in 1980. Berezin is undoubtedly regarded as one of the founders of supermathematics. This book consists of 11 parts, The third, the fourth, the fifth, the sixth, the seventh, the tenth and the eleventh are concerned with memories of Berezin. The third was written by Nikita Vvedenskaya, who became acquainted with Berezin in 1948, when both Berezin and Vvedenskaya entered the Faculty of Mathematical Mechanics at the National University of Moscow. The fourth was written by Dmitri Guitman, who found out the name Berezin through his book [[Zbl 0131.44805](#), [Zbl 0151.44001](#), [Zbl 0678.58044](#)] in 1965, when Guitman was a fourth year student specialized in theoretical physics at the National University of Tomsk. The fifth, written by Dmitri Guitman in Russian and translated into French by Andrei Smilga, Elena Savvina and Renée Abbé, gives an atmosphere of Berezin’s seminars. The sixth, written by Victor Maslov, is concerned with his memory when he was a third year student at the Department of Physics in the National University of Moscow. The seventh, written by Alexandre Kirillov, discusses Berezin in the middle of the 1950s when Berezin gave a course on representations of semi-simple Lie groups. The tenth was written by Hovhannes Khudaverdian, who began to attend Berezin’s seminars under the direction of his research director in the autumn of 1977 and continued to do so until Berezin’s death in 1980. The eleventh was written by Grigori Litvinov, who began to participate in Berezin’s seminar devoted to “Functional Analysis and Mathematical Physics” at the Independent University of Moscow. The eighth is a letter (spring, 1977) from Berezin to Khokhlov, who could not read the letter because of his sudden death in mountains. The first, written by Claude Roger, is a short introduction to the works of Berezin. The second, written by Yuri Neretin, is concerned with the method of second quantization. The ninth, written by Albert Schwarz, addresses the relationship between supermathematics and physics.

Reviewer: [Hirokazu Nishimura \(Tsukuba\)](#)

MSC:

- 58–03 Historical (global analysis)
- 58–06 Proceedings of conferences (global analysis)
- 58C50 Analysis on supermanifolds or graded manifolds
- 35Q35 PDEs in connection with fluid mechanics
- 35Q40 PDEs in connection with quantum mechanics
- 81R12 Relations of groups and algebras in quantum theory with integrable systems
- 01A70 Biographies, obituaries, personalia, bibliographies
- 01A60 Mathematics in the 20th century
- 00B15 Collections of articles of miscellaneous specific interest

Keywords:

[Felix Alexandrovitch Berezin](#); [supermathematics](#)

Biographic references:

[Berezin, Feliks Aleksandrovich](#)