

INTERNATIONAL BIWEEKLY ONLINE SEMINAR ON ANALYSIS, DIFFERENTIAL EQUATIONS AND MATHEMATICAL PHYSICS

Coordinators: Prof. Alexey Karapetyants, Prof. Vladislav Kravchenko

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Multivariate approximation and one problem of combinatorial number theory

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Subdivision schemes known since classical works of De Rham and developed in 90-s by Dyn, Micchelli, Dahmen, Cohen, Oswald, etc. provide a very popular method of multivariate approximation and an efficient toolbox for generating curves and surfaces. We show how the subdivision schemes can be applied to one problem of number theory (computing of the binary partition function) and to classifying special cyclotomic polynomials.

*Seminar website: <https://msrn.sfedu.ru/sl>. The seminar uses Microsoft Teams online platform. Please send questions to ademp.seminar@gmail.com (Tatiana Andreeva, scientific secretary).

The seminar is organized by the Regional Mathematical Center of the Southern Federal University in collaboration with Institute of Mathematics, Mechanics and Computer Sciences of the Southern Federal University and the special Interest ISAAC-OTHA group in Operator Theory and Harmonic Analysis.

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