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

Coordinators: Prof. Alexey Karapetyants, Prof. Vladislav Kravchenko

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Formation of singularities of two-dimensional soliton equations represented by L,A,B-triples

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We present a geometrical mechanism of the formation of singularities of modified Novikov-Veselov and Davey-Stewartson II equations. The singular solutions are constructed by means of surface theory. These systems are represented by L, A, B-triples and we discuss the relation of such a mechanism to the degeneration of the zero level discrete spectra of the corresponding L-operators.

*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 coordinators Alexey Karapetyants and Vladislav Kravchenko within the activities of 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 OTHA research group in Operator Theory and Harmonic Analysis.

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