



North Caucasus Center for Mathematical Research
of the Vladikavkaz Scientific Center of the RAS
Southern Mathematical Institute
of the Vladikavkaz Scientific Center of the RAS



International Seminar
"Operator Theory, Differential Equations and their Applications"

Seminar Chairmen: Prof. Anatoly G. Kusraev, Prof. Marat A. Pliev
Seminar Secretary: PhD Batradz B. Tasoev

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Unbounded asymptotic equivalences of operator nets

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In the present talk, we define various equivalence relations on the collection of all indexed nets of continuous operators on a vector lattice X in the purpose of deriving properties of unbounded Lotz-Rabiger and unbounded martingale nets. The unified approach is utilized in the settings of unbounded topology to obtain results on classes of unbounded Lotz-Rabiger and unbounded martingale nets on X . Because Lotz-Rabiger nets are closely related to the classical notion of ergodic nets and ergodic operators, some of our results further apply to the particular case of classical ergodic operators.

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