Vladikavkaz Scientific Center of the   **Russian Academy of Sciences**

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

November 6, 4 PM (UTC+3)

Ergodicity of perturbed integrated semigroups

prof. **Nazife Erkurşun Özcan**
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When considering the generator of a C_0-semigroup, the theory surrounding the asymptotic behavior of semigroups is well-established. In the early 1980s, a more general concept called integrated semigroups was introduced and has been extensively studied by many authors. This concept generalizes strongly continuous semigroups, cosine operator functions, and exponentially bounded distribution semigroups. On the other hand, perturbation theory for operator semigroups is a crucial tool in applications, making it a well-developed field. In this talk, we will explore the ergodicity of integrated semigroups under additional assumptions and discuss some counterexamples.

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The seminar uses **Webinar** platform.

The seminar is organized by North Caucasus Center for Mathematical Research of the Vladikavkaz Scientific Center of the RAS jointly with Southern Mathematical Institute of the Vladikavkaz Scientific Center of the RAS.

If you have any questions please don't hesitate to contact the secretary of the seminar Batradz Tasoev at seminar_otde@mail.ru