

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
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

November 15, 4 PM (UTC+3)

Compact and monotone difference schemes for parabolic equations

prof. Utebaev B.D.

Karakalpak State University named after Berdakh,
Romanovskii Mathematical Institute of the National Academy of Sciences of Uzbekistan,
Nukus, Uzbekistan.

The report discusses compact and monotone difference schemes of fourth order approximation for linear, semilinear and quasilinear equations of parabolic type. Monotonicity and stability are proved for the Fisher equation. The performed computational experiment illustrates the efficiency methods under consideration.

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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