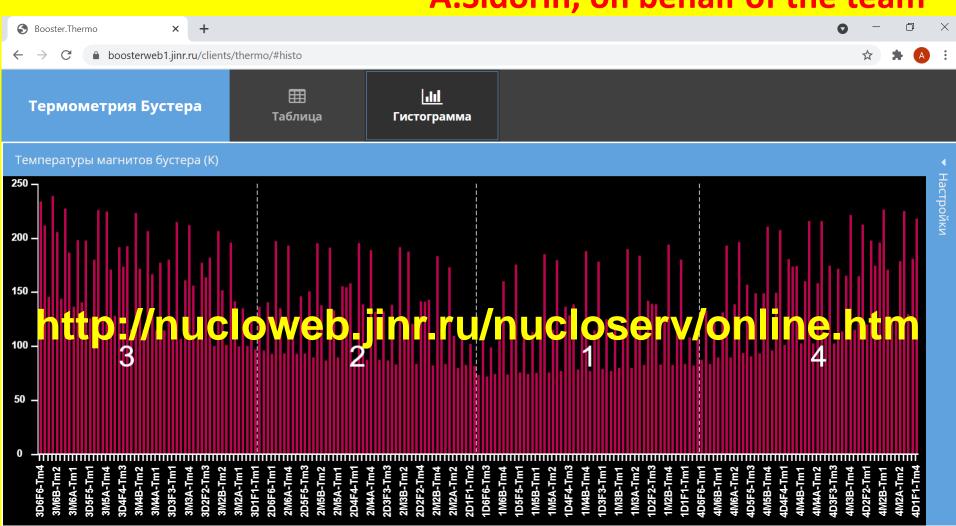
Implementation of the Nuclotron-NICA project

A.Sidorin, on behalf of the team



Contents

Second run of the Booster operation

Plans and schedule of the nearest NICA runs

Status of the collider construction

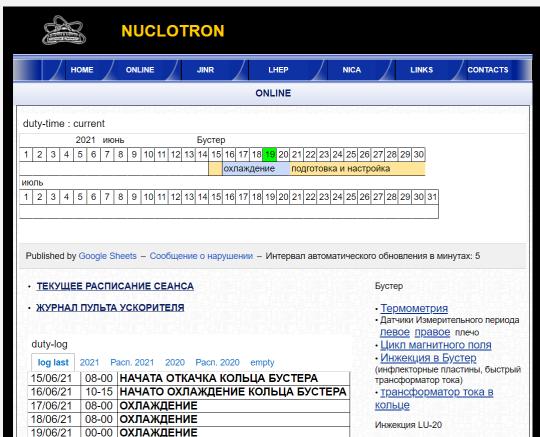
Second run of the Booster operation

A.Alfeev

15.06 pumping16.06 cooling

21.06 – 30.06 Tuning of the power supplies

30.06 – 25.07 Operation with beam



Second run of the Booster operation

V.Karpinsky, A.Tuzikov

21.06 - 30.06

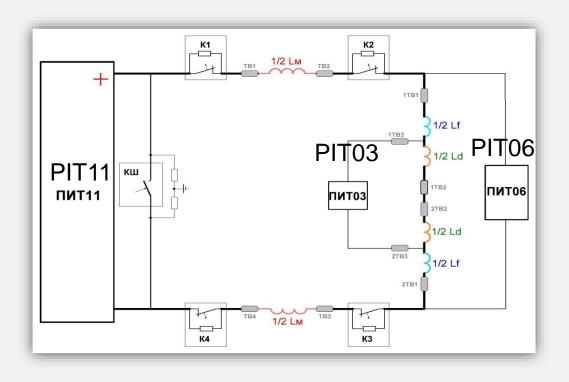
Tuning of the Booster power supplies

Main power supply unit PIT11 (11kA, 260V)

During the first run: required stability at plateau, Improvement of the stability at rising field is necessary

Additional units PIT03, PIT06

tuning was not completed



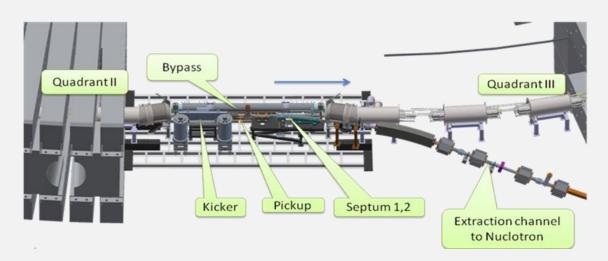
Test of BNTL power supplies

Second run of the Booster operation

A.Tuzikov, A.Kobets

01.07 – 25.07 Operation with beam: He¹⁺, Fe¹⁴⁺ Ions

- Optimization of the beam dynamics,
- Test of the Booster Electron Cooler
- Test of the BNTL





Plans of the nearest NICA runs

November – December 2021:

A.Butenko

- First NICA run (HILAC + Booster + Nuclotron),
- SRC experiment with C beam (Schedule will be determined on the basis of results of the Booster run)

Spring 2022

Second NICA run: start of BM@N

End of 2022

- Third NICA run: injection into Collider, BM@N

Progress in the Collider construction

- Serial production of the collider cryomagnetic system elements is in progress, 100% of the dipole magnets are fabricated and tested
- Main elements of the magnetic optics of the Nuclotron-collider transport channel were fabricated and transferred to JINR
- RF1 and RF2 stations are constructed and transferred to JINR;

SPD hall is used as a storage area

BTC completion was shifted to:

BTC_SPD 31/08/21 BTC_MPD 23/08/21

The completion in time is mandatory!







Thank you for your attention

