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SIS18 operation and recent development

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SIS18 will be used as booster for FAIR's main synchrotron SIS100. In addition, it provides a wide variety of ions from Protons to Uranium for users directly at GSI and FAIR.

An upgrade program to enhance the overall performance for the booster operation has been carried out.

Part of the upgrade program for booster operation was a complete overhaul of the control system including data supply and timing system. In addition, new magnetic alloy cavities have been installed for h=2 operation and dual harmonic operation in conjunction with the existing H=4 cavities. The main power supplies have been upgraded to allow reduced cycle times. The vacuum system has been significantly enhanced.

Further upgrades and machine studies have been performed to enhance available beam parameters and provide new features for the users.

We will report about machine studies and recent operation for FAIR Phase0 experiments utilizing various upgrade measures to enhance overall machine performance.

Funding Agency

Footnotes

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Yes

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