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Organizational Structures at GSI Concerning Accelerator Maintenance and Reliability

The GSI Helmholtz Center for Heavy Ion Research GmbH at Darmstadt, Germany, operates three accelerators, the main linac UNILAC (UNIversal Linear ACcelerator) with two injectors (high current injector HSI, high charge state injector HLI), the heavy ion synchrotron SIS18 and the experimental storage ring ESR. Due to a time-sharing mode up to five experiments can be performed in parallel. Thus, the total experimental beam time per year varied from 11900 to 15500 hours during the last 5 years. To manage beam time scheduling, commissioning, breakdown events, maintenance, and shutdown periods a dedicated organizational structure has been developed for many years. It comprises several daily, weekly and long term meetings as well as responsible persons for beam time, machine, and shutdown coordination, and for safety issues. The operation crew is supported by call on duty personnel of each technical department. Within this contribution this organizational structure is presented in more details with respect to maintenance and reliability.

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