

## GSI as publisher and academic works

Compiled by K. Große

### Special conference

International Symposium on Heavy Ion Physics 2008: November 17-20, 2008 at GSI, Darmstadt The contributions can be found at <http://www.gsi.de/iship2008> under program.

### Accelerator notes

ACC-note-2008-008 Paret, S.; Kornilov, V.; Sorge, S.; Boine-Frankenheim, O.: Chromaticity Measurement with Electron Cooling and Schottky Noise

ACC-note-2008-007 Golubev, A.; Smolyakov, A.; Kantsyrev, A.; Markov, N.; Stolbunov, V.; Mustafin, E.: Radiation Hardness Experiment: Insulator Materials Irradiation at the Proton Linac I-2 at ITEP

ACC-note-2008-006 Kornilov, V.; Boine-Frankenheim, O.; Hofmann, I.: Transverse Collective Instabilities in SIS 100

ACC-note-2008-005 Mustafin, E.; Plotnikov, A.; Latycheva, L.; Sobolevsky, N.; Smolyakov, A.: Radiation Damage to Some Accelerator Elements in FAIR

ACC-note-2008-004 Golubev, A.; Smolyakov, A.; Kantsyrev, A.; Markov, N.; Titarenko, Yu.; Batyaev, V.; Smirnov, G.; Mustafin, E.; Plotnikov, A.; Seidl, T.: Radiation Hardness Experiment: Insulator and Magnetic Alloy Materials, Irradiation at the U-10 Synchrotron at ITEP

ACC-note-2008-003 Golubev, A.; Kantsyrev, A.; Smolyakov, A.; Markov, N.; Stolbunov, V.; Mustafin, E.; Plotnikov, A.: Radiation Hardness Experiment: Insulator and Magnetic Alloy Materials, Irradiation at the Proton Linac I-2 at ITEP

ACC-note-2008-002 Parfenova, A.; Franchetti, G.; Bayer, W.: Resonance Induced Beam Loss in SIS18 affected by CO distortion and chromatic sextupoles

ACC-note-2008-001 Fabio, P.; Franchetti, G.: Elliptic and circular representation of the magnetic field in SIS 100

### GSI Reports

GSI Report 2008-05 P. Mulser (Ed.): ILIAS Ion and Laser Beam Interaction and Application Studies

GSI Report 2008-04 P. Senger (Ed.): CBM Progress Report 2007

GSI Report 2008-03 Prozorov, A.; Labzowsky, L.; Plunien, G.; Liesen, D.; Bosch, F.; Fritzsche, S.; Surzhykov, A.: Ion Beam Polarization in Storage Rings: Production, controlling and Preservation

GSI Report 2008-2 K. Weyrich (Ed.): High Energy Density Physics with Intense Ion and Laser Beams: Annual Report 2007

GSI Report 2008-1 K. Große (Ed.): GSI Scientific Report 2007

### Academic works

GSI Diss 2009-06 C. Novotny: Laser spectroscopy on lithium ions stored at a velocity of 33.8% of the speed of light (2008)

GSI Diss 2009-05 M. Bussmann: Laser-cooled ion beams and strongly coupled plasmas for precision experiments (2008)

GSI Diss 2009-01 C. Oment: Kollimatorsystem zur Stabilisierung des dynamischen Restgasdruckes im Schwerionensynchrotron SIS18 (2008)

GSI Diss 2008-19 D. Severin: Study of the degradation process of polyimide induced by high energetic ion irradiation (2008)

GSI Diss 2008-18 S. A. Litvinov: Investigation of the Isochronous Mode of the Experimental Storage Ring (ESR) and the Collector Ring (CR). Decay Spectroscopy of Highly Charged Stored  $^{140}\text{Pr}$  Ions at the FRS-ESR Facility (2008)

GSI Diss 2008-17 R. Cussons: A unified and microscopic approach to astrophysical nuclear reactions using fermionic molecular dynamics (2008)

GSI Diss 2008-16 Y. C. Pachmayer: Dielektronenpro-

duktion in  $^{12}\text{C} + ^{12}\text{C}$  Kollisionen bei 1 GeV pro Nukleon

GSI Diss 2008-15 G. Maero: Cooling of highly charged ions in a Penning trap for HITRAP (2008)

GSI Diss 2008-14 B. Zielbauer: Characterization and optimization of an X-Ray Laser for the spectroscopy of Li-like Heavy-Ions (2007)

GSI Diss 2008-13 K. Kezzar: Etude des effets de la masse et de l'isospin dans le processus de la multifragmentation (2008)

GSI Diss 2008-12 O. Chorniy: Measurement and interpretation of the bunched beam transfer function in SIS-18 with space charge (2008)

GSI Diss 2008-11 N. Lineva: Emission niederenergetischer Elektronen in Stößen von schweren Ionen mit Festkörpertargets (2008)

GSI Diss 2008-10 A. Parfenova: Linear and nonlinear Response Matrix and its application to the SIS18 synchrotron (2008)

GSI Diss 2008-09 S. M. Lang: Analyse der Elektronenpaarproduktion im Stoßsystem Ar + KCl bei 1,76 AGeV (2008)

GSI Diss 2008-08 M. Sudol: Measurement of low-mass  $e^+e^-$  pair production in 2 AGeV C-C collisions with HADES (2007)

GSI Diss 2008-07 V. Gostishchev: Internal Target Effects in Ion Storage Rings with Beam Cooling (2008)

GSI Diss 2008-06 M. Deveaux: Development of fast and radiation hard Monolithic Active Pixel Sensors (MAPS) optimized for open charm meson detection with the CBM-vertex detector (2008)

GSI Diss 2008-05 A. M. Schmah: Produktion von Seltsamkeit in Ar+KCl Reaktionen bei 1.756 AGeV mit HADES (2008)

GSI Diss 2008-04 M. Rebisz: Alternative methods for heavy-ion therapy dosimetry (2008)

GSI Diss 2008-03 G. Du: A Calcium imaging setup at the single ion hit facility at GSI and its application to the investigation of Calcium response to ion irradiation in mammalian cells (2008)

GSI Diss 2008-02 M. Bender: Untersuchung der Mechanismen Schwerioneninduzierter Desorption an Beschleunigerrelevanten Materialien (2008)

GSI Diss 2008-01 F. Riek: Mesonic and Isobar modes in matter (2007)

GSI Dipl 2008-14 M. Horcicka: Mehrfelderoptimierung für die biologisch effective Dosis in der Schwerionentherapie: nichtlineare Methoden und numerische Analyse (2008)

GSI Dipl 2008-13 M. Lorenz: Geladene Kaonen Produktion in Ar+KCl Reaktionen bei 1.756 AGeV (2008)

GSI Dipl 2008-12 P. Steidl: A new control system for the high-energy rasterscan facility at GSI and precision measurements of Bragg ionisation functions (2008)

GSI Dipl 2008-11 T. Mack: Der Maulwurf: Entwicklung und Fertigung eines komplexen Magnetmesssystems

GSI Dipl 2008-10 -

GSI Dipl 2008-09 E. Gütlich: Untersuchungen zu Leuchtschirmen für die Hochstrom-Strahlprofilmessung am UNILAC der GSI (2008)

GSI Dipl 2008-08 C. Smorra: Setup of a carbon-cluster laser ion source for high-precision mass spectrometry

GSI Dipl 2008-07 S. Müller: Thermoelectric Properties of Bismuth Nanowires (2008)

GSI Dipl 2008-06 T. Fleckenstein: Influence of Mass Uncertainties of Exotic Nuclei on the rp- and vp- Process Model

GSI Dipl 2008-05 K. Reinheimer: Aufbau und Charakterisierung einer Ionenfalle für ein Multireflexions-Flugzeitspektrometer (2008)

GSI Dipl 2008-04 M. Nothhelfer: Aufbau und Test eines Frequenzkammerstabilisierten Lasersystems für die Spektroskopie an Berylliumionen in einer Paulfalle (2007)

GSI Dipl 2008-03 C. Halfpap: Aufbau und Inbetriebnahme eines heizbaren Targethalters zur Messung der NEG-Aktivierung mittels ERDA und von Diffusionssperren mittels RBS (2008)

GSI Dipl 2008-02 M. Wengenroth: Charakterisierung von kryogenen Sorptionsflächen im variablen Temperaturbereich zwischen 10-50 K für das SIS 100/300 (2008)

GSI Dipl 2008-01 G. Eitel: Aufbau eines ortsauflösenden Ionennachweisdetektors für die Penningfallen-Massenspektrometrie (2007)

GSI Master 2008-01 M. Fasel: Hadron Production in Proton-Proton Collisions (2008)