

## Experiments performed at the GSI accelerators in 2008

Compiled by Andreas Tauschwitz, beam time coordinator 2007/2008

In all tables 1 shift represents 8 hours of beam delivered to an experiment including necessary accelerator tuning time.

Exp	Short title	Spokesperson	Area	Ion	Shifts main	Shifts parasitic
U182	Hs chemistry and development of SHE chemistry	Kratz	X1	$^{22}\text{Ne}$	5	
U211	Study of the even-even nucleus 260-Sg	Sulignano	Y7	$^{36}\text{S}$		24
U217	Mass measurements at SHIPTRAP	Block	Y7	$^{12}\text{C}$	9	
U219	TASCA commissioning	Schädel	X8	$^{22}\text{Ne}, ^{48}\text{Ca}, ^{64}\text{Ni}$	60	33
U221	Test of a CVD diamond detector	Bräuning-Demian	HTA	$^{124}\text{Xe}$	5	
U222	Mass of rp-nuclei at SHIPTRAP	Plaß	Y7	$^{36}\text{Ar}$	15	
U226	Energy loss in laser generated plasmas	Roth	Z6	$^{36}\text{S}, ^{36}\text{Ar}$		29
U229	Island of strong deformation above $Z = 82$	Andreyev	Y7	$^{40}\text{Ca}$	21	
U231	Q-value effects on the production of superheavy elements	Türler	X1	$^{36}\text{S}$	39	
U233	Study of fusion of the reaction $^{64}\text{Ni} + ^{238}\text{U} \Rightarrow ^{302}/120$	Hofmann	Y7	$^{22}\text{Ne}, ^{64}\text{Ni}$	295	34
U235	Neutron-deficient isotopes of uranium and plutonium	Heredia	Y7	$^{40}\text{Ca}$	3	
U238	Mass Measurements of nobelium isotopes with SHIPTRAP	Block	Y7	$^{12}\text{C}, ^{48}\text{Ca}$	24	4
UBIO	Biology Experiments at UNILAC	Scholz	X6	$^{12}\text{C}, ^{64}\text{Ni}, ^{208}\text{Pb}, ^{124}\text{Xe}$	13	33
UMAT	Material science at UNILAC	Trautmann,Voss	X0	$^{12}\text{C}, ^{64}\text{Ni}, ^{181}\text{Ta}, ^{197}\text{Au}, ^{208}\text{Pb}$	90	11

Exp	Short title	Spokesperson	Area	Ion	Shifts main	Shifts parasitic
S245	Bound and unbound nuclei near and at the driplines	Jonson	HTC	$^{12}\text{C}$	8	
S293	Proton-induced fission in the GeV domain with SPALADIN	Boudard	FRS	$^{181}\text{Ta}$	12	
S310	g-factors of isomeric states	Balabanski	FRS	$^{64}\text{Ni}$		27
S317	High-intensity effects and beam induced losses	Hofmann	SIS	$^{40}\text{Ar}$	6	
S319	HypHI	Saito	HTA	$^6\text{Li}$	3	
S325	Charged Kaon Measurements with FOPI	Herrmann	HTB	$^{58}\text{Ni}, ^{64}\text{Ni}$	20	5
S327	Dipole response of proton-rich nuclei - pygmy and giant resonances in $^{32}\text{Ar}$ and $^{34}\text{Ar}$	Boretzky	HTC	$^{36}\text{Ar}, ^{40}\text{Ar}$	26	1
S330	Investigation of $^{100}\text{Sn}$	Faestermann	FRS	$^{124}\text{Xe}$	58	3
S331	High-Energy-Density Matter Generated by Intense Heavy Ion Beams	Mintsev	HHT	$^{124}\text{Xe}, ^{238}\text{U}$		30
S333	Vector meson production in proton nucleus and pion nucleus collisions	Salabura	HAD	p, $^{12}\text{C}$	92	
S341	Neutron knockout reactions from proton-rich carbon isotopes	Enders	FRS	$^{12}\text{C}$	6	1
S347	Along the N=126 closed shell	Podolyak	FRS	$^{238}\text{U}$		20
S349	Search for the kaonic nuclear cluster $K^-pp$ with FOPI	Fabbietti	HTB	p		24
S352	Study of N>>=Z proton dripline nuclei $^{96}, ^{97}, ^{98}\text{Cd}$	Blezhev	FRS	$^{124}\text{Xe}$	15	
S357	Detector tests of a multi-track detector for spallation studies	Ducet	HTC	$^{12}\text{C}, ^{64}\text{Ni}$		11
S366	Detektor test for CBM	Niebur	HTD	p		9
SBIO	Biology experiments at SIS	Schardt, Scholz	HTM, HTA	$^{12}\text{C}, ^{132}\text{Xe}$	22	
SiSt	Radiation safety	Fehrenbacher	HTA	$^{12}\text{C}$	6	
SMAT	Materials research at SIS	Trautmann	HTA	$^{124}\text{Xe}, ^{132}\text{Xe}, ^{238}\text{U}$	17	
STHE	Therapy studies	Schardt	HTA	$^{12}\text{C}$	4	

E000	ESR development	Steck	ESR	$^{64}\text{Ni}, ^{124}\text{Xe}, ^{132}\text{Xe}$	21	
E056	Storage lifetimes and cross sections	Dubois	ESR	$^{124}\text{Xe}, ^{238}\text{U}$	12	
E069	Bremsstrahlung during electron transfer to continuum	Hagmann	ESR	$^{238}\text{U}$	18	
E073	Electron Screening and alpha-decay	Musumarra	FRS	$^{238}\text{U}$	10	
E074	Radiative Double Electron Capture	Warczak	ESR	$^{124}\text{Xe}$	8	
E075	HITRAP commissioning	Kester	HI-TRAP	$^{64}\text{Ni}, ^{197}\text{Au}$	35	
E077	Spectroscopy of two-body beta-decays	Litvinov	ESR	$^{132}\text{Xe}$	10	
E079	Isotope shift in the dielectronic recombination of L-shell ions	Kozhuharov	ESR	$^{238}\text{U}$	5	
E080	Study of a novel low-Z internal-target cluster beam	Grisenti	ESR	$^{124}\text{Xe}$	14	
E082	Single-Ion spectroscopy of two-body beta-decays	Litvinov	ESR	$^{132}\text{Xe}$	38	