

Experiments performed at the GSI Accelerators in 2000

P. Egelhof, beam time coordinator

1. SIS/ESR Experiments

exp. no.	spokesperson	affiliation	short title	beam	exp. area	shifts (8h)
E000	Blell, Franzke, Geissel, Steck	GSI	ESR commissioning	^{12}C , ^{84}Kr , ^{197}Au , ^{238}U	ESR, FRS + ESR	38
E013	Bosch	GSI	charge exchange cross sections	^{238}U	ESR	1
E017, E019	Scheidenberger, Bosch	GSI	EC and β -decay of highly charged ions	^{208}Pb	FRS + ESR	15
E018	Deslattes	Gaithersburg	angle-tuned spectroscopy	^{197}Au	ESR	29
E036	Wollnik	Giessen	isochronous mass measurements	^{84}Kr	FRS + ESR	15
E040	Schatz	MSU	nuclear astrophysics studies	^{238}U	FRS	13
E044	Ma	GSI	e-e interaction at strong fields	^{238}U	ESR	13
S000	Blasche, Fehrenbacher, Franzke, Spiller	GSI	SIS commissioning	^1H , ^2H , ^{12}C , ^{18}O , ^{197}Au , ^{238}U	SIS, HHT	23
F000	Blasche, Geissel	GSI	FRS commissioning	^{132}Xe , ^{197}Au , ^{238}U	FRS	10
M000	Fehrenbacher	GSI	therapy commissioning	^{12}C	M	1
M000	Debus	Heidelberg	tumor therapy	^{12}C	M	171
SBIO	Schardt, Scholz	GSI	SIS biology experiments	^{12}C	A, M	41
STHE	Haberer	GSI	therapy studies	^{12}C	A, M	4
S020	Scheidenberger	GSI	slowing-down of rel. heavy ions	^{58}Ni , ^{238}U	FRS	7
S146	Amaldi	CERN	3-D hadron dosimetry	^{12}C	M	2
S174	Egelhof	GSI	elastic proton scattering off n-rich nuclei	^{12}C , ^{18}O , ^{26}Mg	B, FRS + B	26
S183	Pelte	Heidelberg	central collisions	^{12}C	B	3
S198	Neuner	GSI	high energy density in matter	^{18}O , ^{40}Ar , ^{58}Ni , ^{86}Kr , ^{197}Au , ^{238}U	HHT	10
S200	Friese	München	HADES commissioning	^{12}C , ^{84}Kr	HADES	12
S220	Lemmon	Daresbury	study of $N = Z$ nuclei	^{92}Mo	FRS	29
S221	Emling	GSI	isospin struct. of giant resonances	^{124}Sn , ^{238}U	B	2
S223	Sümmerer	GSI	astrophysical reaction rates	^{12}C	FRS + C	35
S225	Marrus	Berkeley	lifetimes of helium-like ions	^{197}Au	A	10
S228, S230	Connell, Armbruster	Chicago, GSI	fragmentation cross sections	^{56}Fe , ^{58}Ni , ^{60}Ni	FRS	32
S232	Scheit	Heidelberg	quadrupole collectivity of n-rich nuclei	^{86}Kr	FRS + B	24
S233	Aumann	GSI	dipole response of dripline nuclei	^{12}C , ^{40}Ar	B, FRS + B	34
S234	Gerl	GSI	hypernuclear γ -spectroscopy	^{12}C	C	5
S237	Schmidt, Simon	GSI	detector tests for the ALICE exp.	^{12}C , ^{84}Kr , ^{197}Au	B, C, HHT	27
S240	Phlips	Washington	test of the "Glast calorimeter"	^{12}C , ^{58}Ni	HHT	2
S241	Bartalucci	Rom	radiation hardness of VLSI devices	^{208}Pb	A	3

exp. no.	spokesperson	affiliation	short title	beam	exp. area	shifts (8h)
S246	Hammache	GSI	Coulomb dissociation of ^6Li	^{12}C	FRS	3
S260	Ting	MIT	radiation hardness of AMS electronics	^{132}Xe , ^{197}Au , ^{238}U	A	27

total: 667 shifts

2. UNILAC Experiments

exp. no.	spokesperson	affiliation	short title	beam	exp. area	shifts (8h)
U000	Barth, Forck, Franzke	GSI	UNILAC commissioning	^1H , ^2H , ^{12}C , ^{40}Ar , ^{238}U	UNILAC, X2	65
UBIO	Scholz, Schardt	GSI	UNILAC biology experiments	^{12}C , ^{40}Ca , ^{58}Ni , ^{64}Ni , ^{70}Zn , ^{197}Au , ^{132}Xe , ^{238}U	X6	33
UMAT	Fischer, Neumann, Trautmann, Vetter, Wirth,	GSI	UNILAC material science	^{12}C , ^{58}Ni , ^{70}Zn , ^{132}Xe , ^{197}Au , ^{238}U	X0, Z5	38
U068	Egelhof	GSI	bolometric detectors	^{58}Ni	Y7	3
U074	Roth	GSI	high energy density in matter	^{64}Ni , ^{70}Zn	Z6	3
U089	Fischer	GSI	single event radiation	^{124}Sn , ^{132}Xe	X0	3
U124	Schädel	GSI	chemistry of heavy elements	^{12}C	X1	2
U129	Janas	GSI	decay studies near ^{100}Sn	^{58}Ni	Y5	15
U161	Hagmann	Kansas	electron ionization cross sections	^{70}Zn	X4	1
U164	Köster	CERN	release properties of ISOL-targets	^{12}C	X1	2
U173	Gadea	Legnaro	decay of the $I = 12^+$ Yrast trap in ^{52}Fe	^{36}Ar	Y5	16
U176	Karny	Warsaw	GT β -decay in n-deficient nuclei	^{40}Ca , ^{58}Ni	Y5	45
U177	Tauschwitz	Darmstadt	properties of high current discharge channels	^{197}Au , ^{238}U	Z4	3
U178	Tauschwitz	Darmstadt	Coulomb stopping in ionized matter	^{40}Ca , ^{238}U	Z4, Z6	2
U179	Hessberger	GSI	structure of $Z=103 - 105$ nuclei	^{12}C	Y7	4
U180	Janas	GSI	decay studies of barium isotopes	^{58}Ni	Y5	5
U182	Kratz	Mainz	chem. properties of element 106	^{12}C , ^{26}Mg , ^{36}Ar , ^{70}Zn	X1	14
U183	Tabor	Tallahassee	isomer spectr. and β -decay of $^{77-79}\text{Y}$	^{36}Ar , ^{40}Ca	Y5	24
U184	Hofmann	GSI	synthesis of superheavy elements	^{26}Mg , ^{50}Ti , ^{58}Ni , ^{64}Ni , ^{70}Zn	Y7	171
U186	Grawe	GSI	β /EC-decay of ^{100}In	^{58}Ni	Y5	12
U189	Rosmej	GSI	x-ray spectroscopy from projectiles inside matter	^{36}Ar , ^{64}Ni	Z6	2

total: 463 shifts