

Vault/Area: S3 vault
Coordinator: Jorge Pereira
Manager: Antonio Villar
Last update: Oct-20

Standard Configuration

System	Subsystem	Subsystem	Model (number)	Location	Spare available?	Model	Location Spare	Responsible Organizational Unit
Magnets	Analysis line diodes	1000DS 1020DS 1220DS	S800 NSCL (4)	S3	no			LAB FRIB ESD MagnetSvs
	Analysis line quadrupoles triplets	1191TA193TB,196TC,1009TA,1210TB,1211TC,1211TA,1211TC,1211TA,1211TC,1233TA,1233TC	S800 Triplet (5), 15 quadrupoles	S3	no			LAB FRIB ESD MagnetSvs
	Analysis line quadrupoles doublets	1170CH,1170DH,1194QA,1196QB	NSCL Doublet (2), 4 quadrupoles	S3	no			LAB NSCL OPS CCF Operations MaintenanceInstallations
	Analysis line steerers	1170CH,1170DH,1231DH	NSCL (3)	TH, S3	no			LAB FRIB ESD MagnetSvs
	Spectrocrunch quadrupoles	1256QA,1259QC	S800 "yellow submarine" (1), 2 quadrupoles	S3	no			LAB FRIB ESD MagnetSvs
	Spectrocrunch diodes	1265DS 1266DS	NSCL (2)	S3	no			LAB FRIB ESD MagnetSvs
	Spectrocrunch septupoles	1670R	S800 "yellow submarine" (1), 1 septupole	S3	no			LAB FRIB ESD MagnetSvs
	Analysis line power supply quads	1191TA,193TB,196TC,1009TA,1210TB,1211TC,1211TA,1211TC,1233TA,1233TC	NSCL 10/100 (13)	S3 mezzanine	yes	EMI	S3 mezzanine	LAB FRIB ASD EkeEna PowerSupplies
	Analysis line power supply diodes	1937A P14TR	Simona P1400 (2)	S3 mezzanine	yes	EMI	S3 mezzanine	LAB FRIB ASD EkeEna PowerSupplies
	Analysis line power supply diodes	1170CH,1231DH	NSCL 20/20 (4)	S3 mezzanine	????????			LAB FRIB ASD EkeEna PowerSupplies
Analysis line diodes	1170CH,1231DH	NSCL 10/100 (1)	S3 mezzanine	yes	EMI	S3 mezzanine	LAB FRIB ASD EkeEna PowerSupplies	
Analysis line steerers PS	1937A P14TR	Simona P1400 (2)	S3 mezzanine	yes	EMI	S3 mezzanine	LAB FRIB ASD EkeEna PowerSupplies	
Spectrocrunch power supply quads	1256QA,1259QC	Serensen DLM 20-30 (1)	S3 mezzanine	yes	Serensen DLM 20-30 (1)	S3 mezzanine	LAB FRIB ASD EkeEna PowerSupplies	
Spectrocrunch power supply sept.	1256QA,1259QC	NSCL 20/20 (1)	S3 mezzanine	yes	EMI	S3 mezzanine	LAB FRIB ASD EkeEna PowerSupplies	
Spectrocrunch power supply diodes	1256QA,1259QC	NSCL 10/100 (2)	S3 mezzanine	yes	EMI	S3 mezzanine	LAB FRIB ASD EkeEna PowerSupplies	
Spectrocrunch power supply trim coil	1256QA,1259QC	NSCL 10/100 (2)	S3 mezzanine	yes	EMI	S3 mezzanine	LAB FRIB ASD EkeEna PowerSupplies	
Duno switches	1256QA,1259QC	Invertorbus NSCL-208-209/60 (2)	S3 mezzanine	yes (2)	NSCL 10250	S3 mezzanine	LAB FRIB ASD EkeEna PowerSupplies	
Spectrocrunch diodes	1256QA,1259QC	NSCL	S3 mezzanine	????????			LAB FRIB ASD EkeEna PowerSupplies	
NMR	NMR probes 4	Spectrocrunch diodes	Metalab (2)	Inside Spectr. Diodes	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
	NMR probes 4	Spectrocrunch diodes	Metalab (4)	S3 above basement	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
	NMR probes 5	Spectrocrunch diodes	Metalab (4)	Inside Spectr. Diodes	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
	NMR controllers	Analysis line diodes	Metalab (4)	S3 above basement	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
	NMR controllers	Analysis line diodes	Metalab (4)	S3 above basement	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
	NMR cream/multi/steers	Analysis line diodes	Metalab (4)	S3 above basement	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
	NMR controller TS	Analysis line diodes	Metalab (4)	S3 above basement	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
	NMR coils/cores	Analysis line diodes	Metalab (4)	S3 above basement	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
	NMR coils/cores TS	Analysis line diodes	Metalab (4)	S3 above basement	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
	NMR coils/cores TS	Analysis line diodes	Metalab (4)	S3 above basement	no	Metalab		LAB NSCL OPS CCF Operations MaintenanceInstallations
Cryostats	Rupture disk (20 psi)	Analysis line diodes	Zeek	S3	yes	Zeek	????????	LAB FRIB ESD MagnetSvs
	Rupture disk (25 psi)	Analysis line diodes	Zeek	S3	yes	Zeek	????????	LAB FRIB ESD MagnetSvs
	Cryoannels	Analysis line diodes	NSCL	S3	no			LAB FRIB ESD MagnetSvs
	Cold-head 1020DS	Analysis line diodes	Comench AL60 (1)	S3 above	????????	VHS-4	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Diffusion curve 1020DS	Analysis line diodes	VHS-4 (1)	S3 above	????????	VHS-4	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Compressor 1020DS	Analysis line diodes	Comench CP80 (1)	S3 above	????????	VHS-4	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Diffusion curve Lower bobbin	Analysis line diodes	VHS-4 (1)	S3 mezzanine	yes	VHS-4	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Diffusion curve Lower bobbin	Analysis line diodes	VHS-4 (1)	S3 mezzanine	yes	VHS-4	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Main Diffusion curve	Analysis line diodes	VHS-10 (1)	S3 mezzanine	yes (1)	VHS-10	Root	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Mechanical coums	Analysis line diodes	Miscellaneous (small-alcali type)	S3	yes	Miscellaneous (small-alcali type)	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
Pressure gauges	Analysis line diodes	Standard NSCL	S3	yes	Standard NSCL	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum	
Vacuum	Gate valves	Analysis line diodes	Standard NSCL fast beamlines	S3	no			LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Gate valves	Analysis line diodes	Standard NSCL fast beamlines	S3	no			LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Turbo coums	Analysis line diodes	Levold MAGV 2200P	S3 level	yes (1)	Levold MAGV 2200P	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Cryovacuum DI/D2 chamber	Analysis line diodes	Levold MAGV 2200P	S3 level	yes (1)	Levold MAGV 2200P	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Compressor	Analysis line diodes	Levold MAGV 2200P	S3 level	yes (1)	Levold MAGV 2200P	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Compressor	Analysis line diodes	Levold MAGV 2200P	S3 level	yes (1)	Levold MAGV 2200P	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Compressor	Analysis line diodes	Levold MAGV 2200P	S3 level	yes (1)	Levold MAGV 2200P	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Compressor	Analysis line diodes	Levold MAGV 2200P	S3 level	yes (1)	Levold MAGV 2200P	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Compressor	Analysis line diodes	Levold MAGV 2200P	S3 level	yes (1)	Levold MAGV 2200P	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
	Compressor	Analysis line diodes	Levold MAGV 2200P	S3 level	yes (1)	Levold MAGV 2200P	Vacuum lab	LAB NSCL OPS CCF Operations MaintenanceInstallations Vacuum
Control and networks	Medicon cards	Analysis line diodes	Medicon	S3 top level	yes	Medicon	????????	LAB NSCL OPS Controls Operation
	Ethernet control switches 1	Analysis line diodes	Medicon	S3 mezzanine (mezz)	yes	Medicon	????????	LAB NSCL OPS Controls Operation
	Ethernet control switches 2	Analysis line diodes	Medicon	S3 mezzanine (mezz)	yes	Medicon	????????	LAB NSCL OPS Controls Operation
	VME crate	Analysis line diodes	Medicon	S3 mezzanine (mezz)	yes	Medicon	????????	LAB NSCL OPS Controls Operation
	VME crate	Analysis line diodes	Medicon	S3 mezzanine (mezz)	yes	Medicon	????????	LAB NSCL OPS Controls Operation
	Terminal servers	Analysis line diodes	Medicon	S3 mezzanine (mezz)	yes	Medicon	????????	LAB NSCL OPS Controls Operation
	DAO ethernet switches	Analysis line diodes	Medicon	S3 mezzanine (mezz)	yes	Medicon	????????	LAB NSCL OPS Controls Operation
	DAO ethernet switches	Analysis line diodes	Medicon	S3 mezzanine (mezz)	yes	Medicon	????????	LAB NSCL OPS Controls Operation
	DAO ethernet switches	Analysis line diodes	Medicon	S3 mezzanine (mezz)	yes	Medicon	????????	LAB NSCL OPS Controls Operation
	DAO ethernet switches	Analysis line diodes	Medicon	S3 mezzanine (mezz)	yes	Medicon	????????	LAB NSCL OPS Controls Operation
Detectors	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
	CRDCs	Assembled Detectors	NSCL S800 CRDC (2)	S800 Focal plane (me)	yes (2)	S800 CRDC fully assembled	Detector Lab	LAB NSCL OPS CCF Operations DetectorSystems
Gas Handling system S800 FP	Pressure transducers	Analysis line diodes	MKS 740B	S3 FP (outside)	yes	MKS 740B	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Mass flow controls	Analysis line diodes	MKS 1179A	S3 FP (outside)	yes	MKS 1179A	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Flow controllers	Analysis line diodes	MKS 1179A	S3 FP (outside)	yes	MKS 1179A	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Filters	Analysis line diodes	MKS 1179A	S3 FP (outside)	yes	MKS 1179A	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Solenoid valves	Analysis line diodes	MKS 1179A	S3 FP (outside)	yes	MKS 1179A	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Needle valves	Analysis line diodes	MKS 1179A	S3 FP (outside)	yes	MKS 1179A	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Diaphragm	Analysis line diodes	MKS 1179A	S3 FP (outside)	yes	MKS 1179A	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Solenoid valves	Analysis line diodes	MKS 1179A	S3 FP (outside)	yes	MKS 1179A	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Needle valves	Analysis line diodes	MKS 1179A	S3 FP (outside)	yes	MKS 1179A	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Diaphragm	Analysis line diodes	MKS 1179A	S3 FP (outside)	yes	MKS 1179A	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
Gas Handling system S800 II	Pressure gauges	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Mass flow control	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Solenoid valves	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Needle valves	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Diaphragm	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Solenoid valves	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Needle valves	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Diaphragm	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Solenoid valves	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems
	Needle valves	Analysis line diodes	NSCL	S3 top (west balcony)	yes	NSCL	Detector lab	LAB NSCL OPS CCF Operations DetectorSystems

	S3 control (cf-s3)	S3 vault control				S3 mezzanine	LAB.FRIB.BSO.BusinessIT.SS
Utilities	AC	Two top S3 units	Trane WCHD08041EJAAA1000000200 Trane WCHD08041EJAAA41000000200	S3 top level S3 top level	????????? ?????????		LAB.FRIB.CFD.Facilities LAB.FRIB.CFD.Facilities
		Two basement S3	Trane SWUB-B504-E Carrier SUBRN0166Z McQuay	S3 basement S3 basement S3 top	????????? no no		LAB.FRIB.CFD.Facilities LAB.FRIB.CFD.Facilities LAB.NSCL.EXPRESS.Eq.Res.MSS
		S800 electronics cabinet (2)					