

Meeting for S1-Global module design Cryomodule and Cryogenics 20090407

ILC Cryomodule and Cryogenic
Groups

Agenda

1. AAP-TILC09 presentation for cryomodule (Norihito Ohuchi)
2. Component and responsible institute for S1-G (Norihito Ohuchi)

Component and responsible institute for S1-G

	Items	Sub-components	Responsible Institute	No. of pcs	Remark
Cryomodule-C	Vacuum Vessel		INFN	1 set	
		Vacuum cap	INFN	2	including connection bolts
		Craw clamp	INFN	2 sets	
		O-ring	KEK	2	
	Support post (fixed type)		INFN	1 set	including a set of bracket
	Support post (movable type)		INFN	1 set	including a set of bracket
	Gas return pipe		INFN	1	
		C-clamp (right side)	INFN	8 sets	including a set of sliding mechanism and pressure control bolts and washers
		C-clamp (left side)	INFN	8 sets	including a set of sliding mechanism and pressure control bolts and washers
		SI	INFN		
	Bellow between 2K helium supply pipes welded to jackets				
	Cool-down and warm-up pipe		INFN	1	branch pipes and connection flanges are welded
	5K forward pipe		INFN	1	
	5K return pipe with fin		INFN	1	
	5K shield Al plates		INFN	1 set	
		SI	INFN	1 set	10-layer-blanket
	80K forward pipe		INFN	1	
	80K return pipe with fin		INFN	1	
	80K shield Al plates		INFN	1 set	
		SI	INFN	1 set	30-layer-blanket
	Pipe for cables of tuner components		INFN	1 set	
	Sensors				
		Cernox thermometer	KEK		
		PtCo thermometer	KEK		
		Thermometer cable	KEK		
		OC thermocouple	KEK		
		WPM	KEK	5 sets	including cables and connection pipes
	Signal terminal port		KEK	2 sets	one is for thermometers, and the other is for WPMs.
	Vacuum port flange		KEK	1 set	

Component and responsible institute for S1-G

DESY cavity	Cavity-jacket	Main body	DESY	2 sets	cavity-jacket with
		SI			
	Tuner (Saclay)	Main components	DESY	2 sets	
		Cable	DESY	2 sets	including cable-terminals
	Input coupler	Main components	DESY	2 sets	including assembling bolts and nuts
		RF cable	DESY	2 sets	
		RF terminal	DESY	2 sets	
		Thermal intercept	DESY	2 sets	
	Gate valve			1 set	
	Magnetic shield	For cavity-jacket	DESY	2 sets	
		Between DESY cavities	DESY	1 set	
		Between DESY and FNAL cavities		1 set	
		Between DESY cavity and G.V.		1 set	
	Connection bellow	Between DESY cavities	DESY	1 set	including Al hexagon seal
		Between DESY and FNAL cavities		1 set	including Al hexagon seal
		Between DESY cavity and G.V.		1 set	including Al hexagon seal
	Beam pipe between gate valve and module end flange		KEK	1 set	including metal seal

Component and responsible institute for S1-G

FNAL cavity	Cavity-jacket	Main body	FNAL	2 sets	cavity-jacket with
		SI			
	Tuner (Blade)	Main components	FNAL	2 sets	
		Cable	FNAL	2 sets	including cable-terminals
	Input coupler	Main components	FNAL	2 sets	including assembling bolts and nuts
		RF cable	FNAL	2 sets	
		RF terminal	FNAL	2 sets	
		Thermal intercept	FNAL	2 sets	
	Gate valve			1 set	
	Magnetic shield	For cavity-jacket	FNAL	2 sets	
		Between FNAL cavities	FNAL	1 set	
		Between FNAL cavity and G.V.		1 set	
	Connection bellow	Between FNAL cavities	FNAL	1 set	including Al hexagon seal
		Between FNAL cavity and G.V.		1 set	including Al hexagon seal
	Beam pipe between gate valve and Module-A		KEK	1 set	including metal seal

Next meeting

12-th Biweekly Webex meeting (S1-G, Cryomodule, Cryogenics)

- 28 April 2009 (Tuesday)
 - 22:00 (KEK), 8:00 (FNAL), 14:00 (DESY, INFN)
- Agenda
 - Progress in CAD work for Module-A