

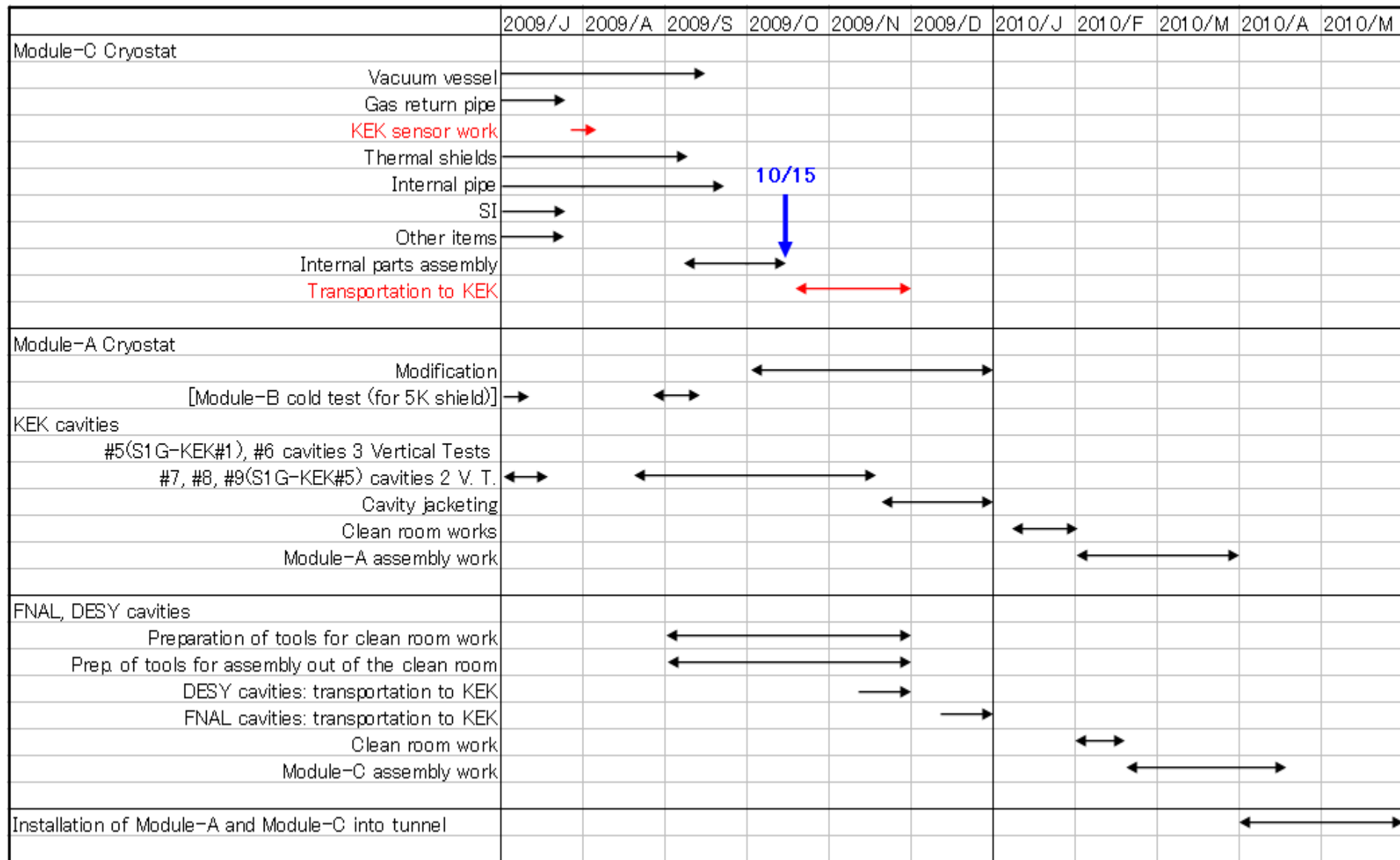
Meeting for S1-Global module design Cryomodule and Cryogenics 20090707

ILC Cryomodule and Cryogenic
Groups

Agenda

1. Updated construction status of Module-C (Paolo Pierini/Serena Barbanotti)
2. S1-G assembly schedule (Norihito Ohuchi)
3. Module-C component list (Norihito Ohuchi)
4. Others

S1-G assembly schedule



Module-C component list (FNAL Cavity)

Items	Sub-components	Sub-sub-comp.	Sub-sub-sub-comp.	Responsible Institute	No. of pcs	No. of spares
Cavity-jacket	Main body			FNAL	2 sets	
	2K Lhe supply pipe and bellow			FNAL	2 sets	
	SI			FNAL	2 sets	
Tuner (Blade-slim)	Main components			FNAL/INFN	2 sets	
		Motor-ASSY		FNAL/INFN	1 set	
		Blade-ASSY		FNAL/INFN	1 set	
		Bolt and nut		FNAL/INFN	10 set	
		hexagon bolt		FNAL/INFN	1	
		washer-plane		FNAL/INFN	1	
	Cable (motor, piezo)			FNAL	2 sets	
Sensor for the tuner position			FNAL			
Input coupler	Main components			FNAL	2	
		Coupler-ASSY		FNAL	1 set	
		Shield-ASSY		FNAL	1 set	
	Diagnostic cable			FNAL	2	
	Thermal intercept			FNAL	2 sets	
		Bolt and nut		FNAL	8set	
		hexagon socket bolt		FNAL	1	
		washer-plane		FNAL	1	
HOM coupler	Main component			FNAL	2set	
		antenna-ASSY		FNAL	3	
	RF cable			FNAL	4	
	Monitor coupler			FNAL	2	
	Monitor cable			FNAL	2	
	Thermal intercept			FNAL	2 sets	
Feedthrough flange for RF cables, monitor cables				FNAL	2	
Gate valve				KEK	1 set	
	Valve support-ASSY			KEK	1 set	
		support-ASSY		KEK	1 set	
		C-cramp		KEK	2 set	
		C-cramp roller		KEK	1	
			KEK	2		

Magnetic shield	For cavity-jacket	shield-plate		FNAL	2 sets	
				FNAL	1 set	
			A	FNAL	1	
			B	FNAL	1	
			C	FNAL	1	
			D	FNAL	1	
			E	FNAL	2	
			F	FNAL	2	
			G	FNAL	1	
			H	FNAL	1	
		Bolt and nut		FNAL	34set	
			cross recessed bolt	FNAL	1	
			nut	FNAL	1	
		For beam pipe between FNAL		FNAL	1 set	
			A	FNAL	1	
			B	FNAL	1	
			Bolt and nut	FNAL	10set	
			cross recessed bolt	FNAL	1	
			nut	FNAL	1	
		For beam pipe between FNAL		FNAL	1 set	
		A	FNAL	1		
		B	FNAL	1		
		Bolt and nut	FNAL	8set		
		cross recessed bolt	FNAL	1		
		nut	FNAL	1		
	For beam pipe between FNAL and DESY cavity		FNAL	1 set		
		Bolt and nut	FNAL			
		cross recessed bolt	FNAL	1		
		nut	FNAL	1		

Connection beam pipe and bellow	Between FNAL cavities			FNAL	1 set		
		bellow		FNAL	1		
		Metal seal	Al hexagon seal	FNAL	2	4	
		Bolt and nut		FNAL	2X12set		
			hexagon bolt		FNAL	1	
			washer-plane		FNAL	2	
		nut		FNAL	1		
	Between FNAL cavity and gate valve				FNAL/KEK	1 set	
		bellow			KEK	1	
		Metal seal			FNAL/KEK	1set	1set
			hexagon seal		FNAL	1	
			DN63CF		FNAL/KEK	1	
		Bolt and nut			FNAL/KEK	12set	
stud bolt				FNAL/KEK	1		
washer-plane				FNAL/KEK	2		
		nut		FNAL/KEK	1		
Bolt				FNAL/KEK	8set		
	hexagon bolt		FNAL/KEK	1			
	washer-plane		FNAL/KEK	1			
Between FNAL and DESY cavities				FNAL	1 set		
	bellow			FNAL	1	1	
	Metal seal	Al hexagon seal		FNAL	2	2	
				FNAL	2X12set		
	Bolt and nut			FNAL	1		
		hexagon bolt		FNAL	2		
		washer-plane		FNAL	1		

Module-C component list (DESY Cavity)

Items	Sub-components	Sub-sub-comp.	Sub-sub-sub-comp.	Responsible Institute	No. of pcs	No. of spares
Cavity-jacket	Main body			DESY	2 sets	
	2K Lhe supply pipe and bellow			DESY	2 sets	
	SI			DESY	2 sets	
Tuner (Saclay)	Main components			DESY	2 sets	
		Motor-ASSY		DESY	1 set	
		support-ASSY		DESY	1 set	
	Cable (motor, piezo)			DESY	2 sets	
	Sensor for the tuner position			DESY	2 sets	
Input coupler	Main components			DESY	2 set	
		Coupler-ASSY		DESY	1 set	
		Shield-ASSY		DESY	1 set	
	Diagnostic cable			DESY	2	
	Thermal intercept			DESY	2 sets	
		Bolt and nut		DESY	8 set	
			hexagon socket bolt	DESY	1	
			washer-plane	DESY	1	
		Seals		DESY	1	
HOM coupler	Main component			DESY	2 set	
		Antenna-ASSY		DESY	3	
	RF cable			DESY	4	
	Monitor coupler			DESY	2	
	Monitor cable			DESY	2	
	Thermal intercept			DESY	2 sets	
Feedthrough flange for RF cables, monitor cables				DESY	2	
Gate valve				KEK	1 set	
	Valve support-ASSY			KEK	1 set	
		support-ASSY		KEK	1 set	
		C-cramp		KEK	2 set	
			C-cramp roller	KEK	1	
				KEK	2	
Magnetic shield				DESY	2 sets	
	For cavity-jacket			DESY	1 set	
		shield-plate		DESY	1 set	
	For beam pipe between DESY cavities			DESY	1 set	
		shield-plate		DESY	1 set	
	For beam pipe between DESY cavity and gate valve			DESY	1 set	
	shield-plate		DESY	1 set		

Connection beam pipe and bellow	Between DESY cavities			DESY	1 set		
		bellow		DESY	1		
		Metal seal	Al hexagon seal	DESY	2	4	
		Bolt and nut		DESY	2X12set		
			hexagon bolt	DESY	1		
		washer-plane	DESY	2			
		nut	DESY	1			
	Between DESY cavity and gate valve				DESY/KEK	1 set	
		bellow			KEK	1	
		Metal seal			DESY/KEK	1set	1set
		hexagon seal		DESY	1		
		DN630F		DESY/KEK	1		
Bolt and nut				DESY/KEK	12set		
		stud bolt		DESY/KEK	1		
		washer-plane		DESY/KEK	2		
	nut		DESY/KEK	1			
	Bolt			DESY/KEK	8set		
		hexagon bolt		DESY/KEK	1		
		washer-plane		DESY/KEK	1		
Beam pipe between gate valve and module-A	PIPE			KEK	1set		
		PIPE		KEK	1		
		Metal seal	DN630F	KEK	2	2	
		Bolt and nut		KEK	2X8set		
			hexagon bolt	KEK	1		
	washer-plane	KEK	1				

Next meeting

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

- 21 July 2009 (Tuesday)
 - 22:00 (KEK), 8:00 (FNAL), 15:00 (DESY, INFN)
- Agenda
 - Updated construction status of Module-C (Paolo Pierini)
 - Others