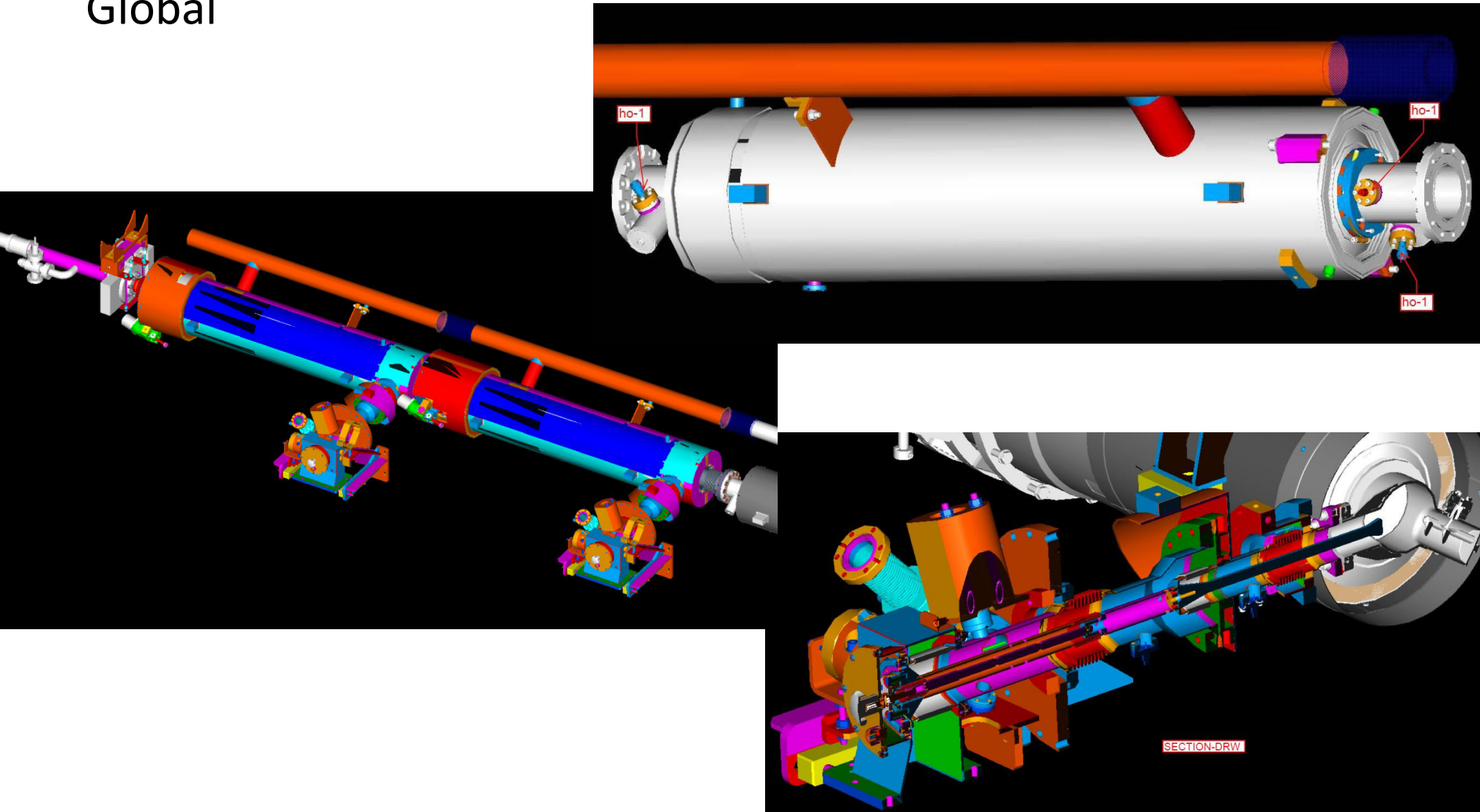


# Visiting DESY for S1-G module

Norihito Ohuchi

# DESY cavity preparation

3D solid model for two DESY cavities with magnetic shields for S1-Global



# Component list for the DESY cavity packages

Items	Sub-components	Sub-sub-comp.	Sub-sub-sub-comp	Responsible Institute	No. of pos	No. of spares	Remark	Drw.No
Cavity-jacket	Main body			DESY	2 sets		2K Lhe supply pipe welded to jacket	ca-1
	2K Lhe supply pipe and bellow			DESY	2 sets			ca-2
	SI			DESY	2 sets			ca-3
Tuner (Saclay)	Main components			DESY	2 sets		The control system should be included. The control of the tuner need to be discussed.	
		Mortor-ASSY		DESY	1 set			tu-1
		support-ASSY		DESY	1 set			tu-2
		Cable (motor, piezo)		DESY	2 sets		control system	tu-3
		Sensor for the tuner position		DESY	2 sets			tu-4
Input coupler	Main components			DESY	2set		including assembling bolts and	
		Coupler-ASSY		DESY	1 set			in-1
		Shield-ASSY		DESY	1 set			in-2
		Diagnostic cable		DESY	2			in-3
		Thermal intercept		DESY	2 sets			in-4
		Bolt and nut		DESY	8 set			in-5
			hexagon socket bolt	DESY	1		M6X35	
			washer-plane	DESY	1			
	Seals		DESY	1			in-6	
HOM coupler	Main component			DESY	2set			
		Antenna-ASSY		DESY	3			ho-1
		RF cable		DESY	4			ho-2
		Monitor coupler		DESY	2			ho-3
		Monitor cable		DESY	2			ho-4
	Thermal intercept		DESY	2 sets			ho-5	
Feedthrough flange for RF cables, monitor cables				DESY	2			
Gate valve				KEK	1 set		At one end in the string, the gate valve is required.	
	Valve support-ASSY			KEK	1 set			
		support-ASSY		KEK	1 set			gs-1
		O-cramp		KEK	2 set			gs-2
			O-cramp roller	KEK	1			
			KEK	2				

# Visiting DESY on 18th September

## KEK proposal for the preparation of DESY cavities

- Completion of the component list of DESY cavities and confirmation of the S1-G module construction schedule between DESY and KEK.
  - Confirmation by KEK: The list will be completed by KEK, but we expect that this list would be checked by DESY staff.
    - RF cables, piezo cables, magnetic shield (on the gate valve side), input coupler structure including the components out of the vacuum vessel, etc.
- Preparation of the assembly procedures of cavities/module, tooling and alignment method.
  - For the cryomodule work, the tooling prepared by KEK.
    - Welding machine, pipe cutter, assembly tools for DESY tuners and couplers, etc.
- Need to discuss with DESY people for the actual work.
  - Assembly schedule of Module-C in STF.
- Eiji Kako and Norihito Ohuchi would like to visit DESY at 18<sup>th</sup> September, and talk about the above items with DESY people.
  - We will prepare the presentations for the above discussion.