

Meeting for  
S1-Global module design  
Cryomodule and Cryogenics  
20081125

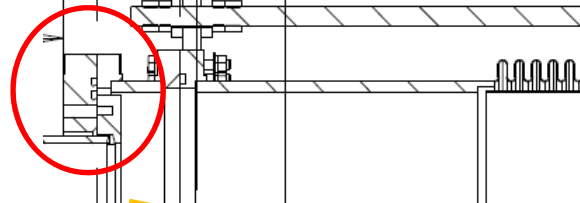
Norihito Ohuchi

# Agenda

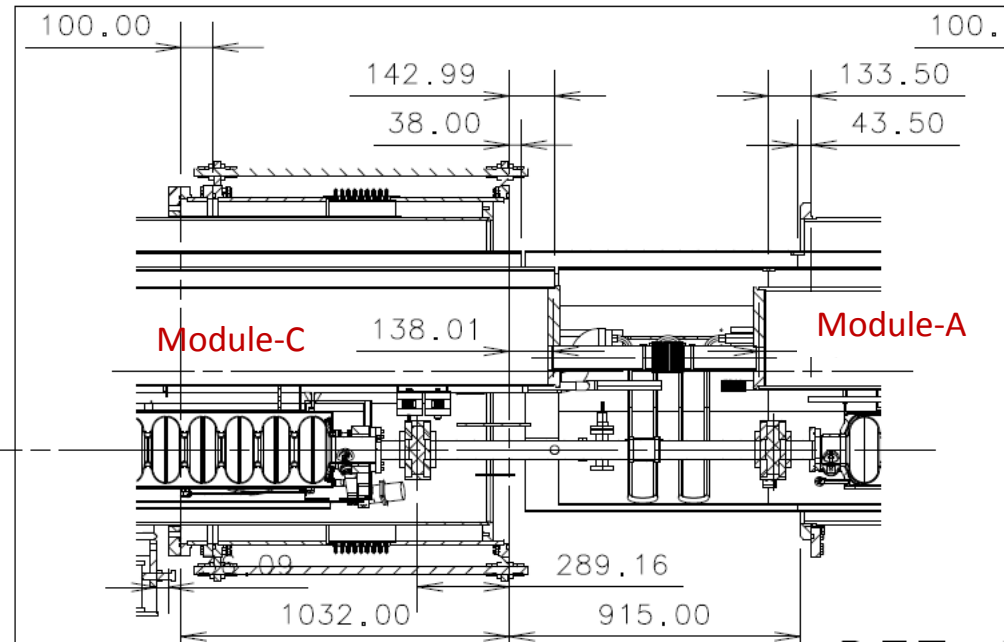
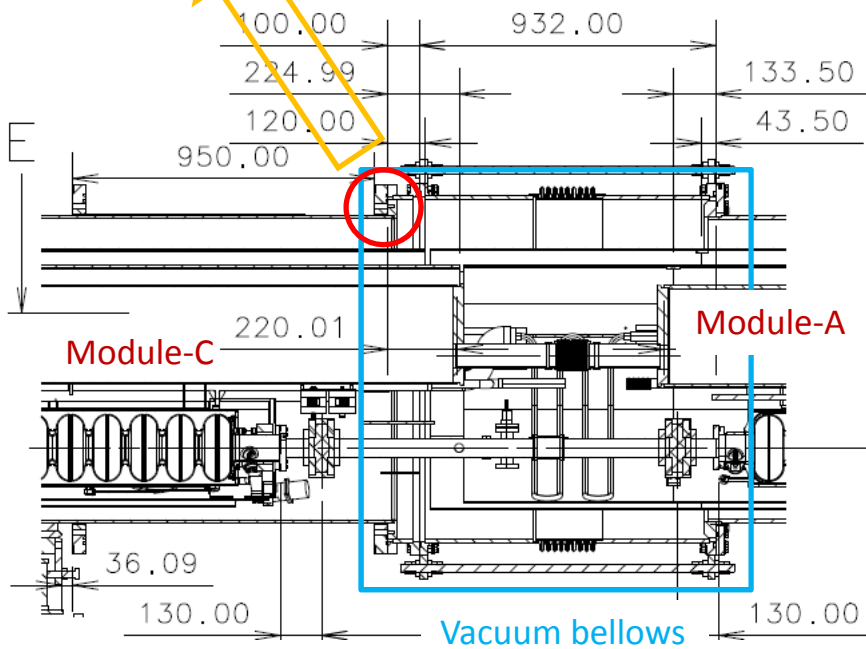
1. Module-C characteristics (Serena Barbanotti)
2. Progress of Module design (Norihiro Ohuchi)
3. Cryomodule WP (Norihiro Ohuchi)
4. Cryogenics WP (Tom Peterson)

# Design of the connection area between Module-A and -C for new KEK cavity design (four cavities)

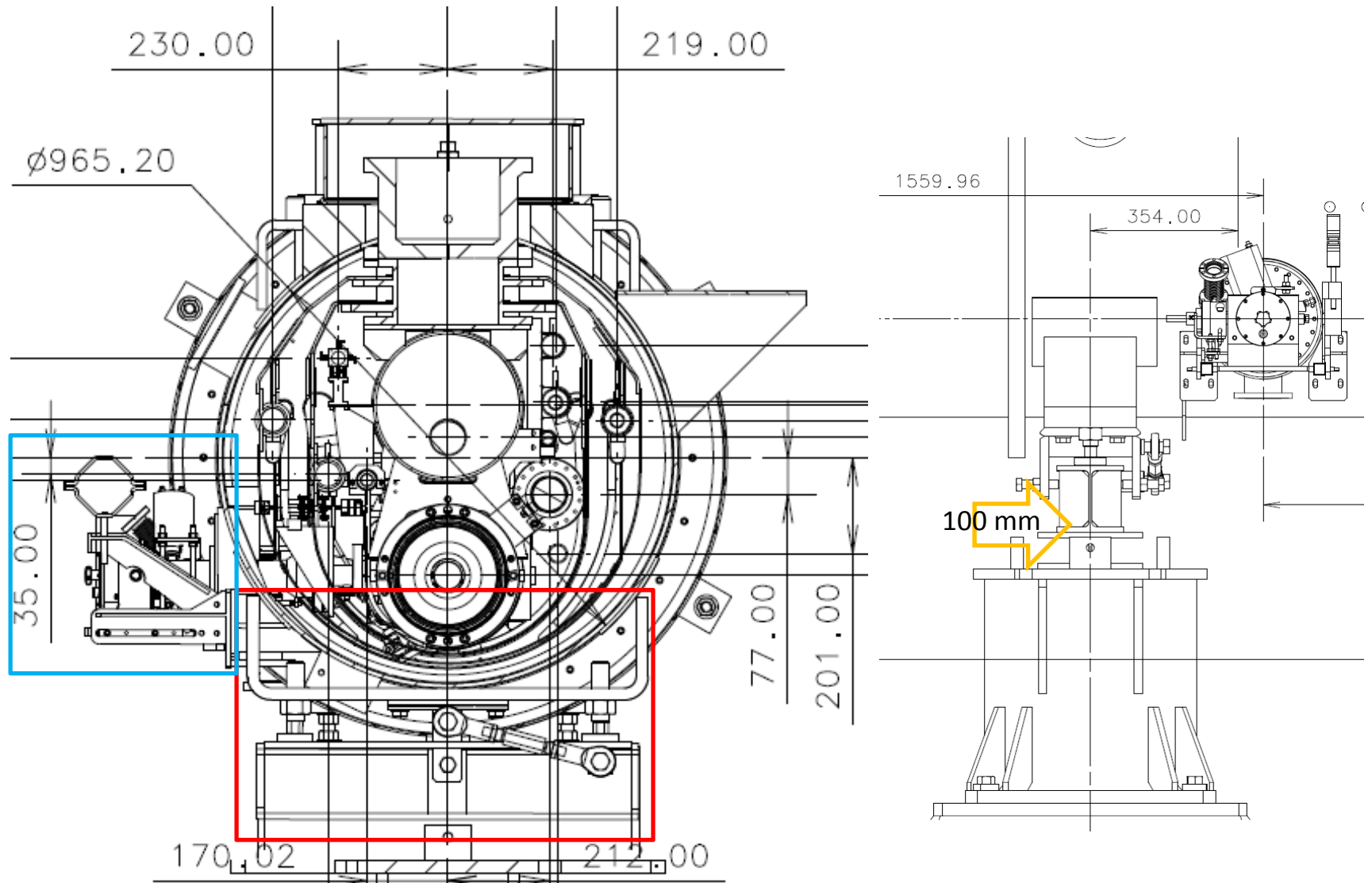
Double flange



Module-C length = 6000 mm



# Design of the connection area between Module-A and -C



# WP (Cryomodule)

	Dec. 07 (ED-plan)	TDp-R&D (proposed)	Responsible person	Priority
1.3.1	Standardization	Standardization/Plug-compatibility	DM,NO	2
1.3.2	Cooling pipe config. and 5K shield	Cold-mass engineering	PP, YO, TP, HN(KH), NO	3
1.3.3	Quadrupole + BPM assembly	Quadrupole+BPM installation	NO, YO	4
1.3.4	Assembly process and Engineering design with CAD	Assembly and Eng. w/CAD work	NO, PP, KJ, TA, YO	1
1.3.5	Sys. Performance eval.	System test and	NO, PP, TP	5
1.3.6	Transportation	Transportation	MM, KJ	6
1.3.7	Industrialization/Cost	Industrialization & Cost	NO, TS, PhPf	7

- Spec. table, heat load table
- Interface of pl. com.
- High pressure code

- 5K shield test
- Cool-down analysis
- Cooling pipe design in the module

- Support and current leads
- Installation procedure
- Alignment and vibration

- S1-Global module design
- ILC proto-type design

- CM1, S1-G

- M8
- 3.8GhzCM
- CMs in FNAL

# WP works in the near future

1. S1-Global design work
2. Specification table
  - Cavity span, Cryomodule length, Heat load
3. Heat load table (based on the revised RDR table)
  - Input coupler, RF cable
4. Interface design for plug compatible

# Next meeting

- December 9 (Tuesday)
- 23:00 (KEK), 8:00 (FNAL), 15:00 (DESY, INFN)