

# Organisation of the CCDDL kick-off meeting

**F. Gerigk**

**kick-off meeting for ISTC projects #3888 and #3889,  
CERN, July 2009**

# Overview

- discussion subjects,
- schedule,
- organisation

# summary of all meetings

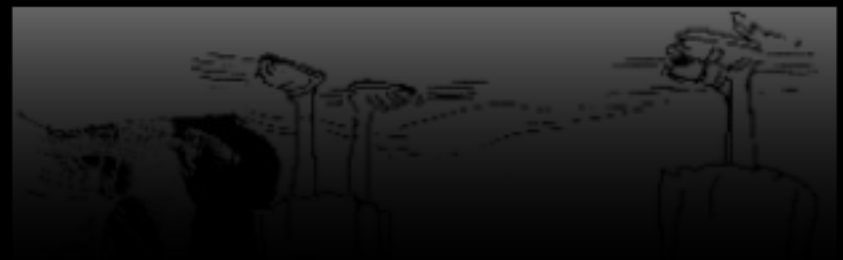
Monday 13 July 2009		Tuesday 14 July 2009		Wednesday 15 July 2009		Thursday 16 July 2009		Friday 17 July 2009	
09:30	welcome- Frank Gerigk (CERN) (until 12:30) ( 6-2-004 )	09:00	Discussion on drift tube construction, geometry, ports- Frank Gerigk (CERN) (until 11:30) ( 354-1-001 )	09:00	Vacuum- Frank Gerigk (CERN) (until 11:30) ( 6-2-004 )			09:00	Summary session- Frank Gerigk (CERN) (until 12:00) ( 354-1-001 )
09:30	Welcome address - Lyn Evans							09:00	Test sequence, meeting schedule, monitoring, quality assurance
09:40	Status of Linac4 - Maurizio Vretenar (CERN)							10:30	--- break ---
10:05	Organisation of kick-off meeting - Frank Gerigk (CERN)							10:45	Preparation of summary -closed session- - Frank Gerigk (CERN) Alexey Tribendis (BINP) Maurizio Vretenar (CERN)
10:25	--- break ---							11:15	Summing up - Frank Gerigk (CERN) Alexey Tribendis (BINP) Maurizio Vretenar (CERN)
10:40	Discussion on contract status - Tadeusz Kurtyka (CERN) Alexey Tribendis (BINP)								
11:40	Visit of 3 MeV test stand - Maurizio Vretenar (CERN) Frank Gerigk (CERN)								
12:30	lunch for selected invitees (until 14:00) ( Restaurant 2 )								
14:00	Discussion on alignment and support structure- Frank Gerigk (CERN) (until 16:00) ( 6-2-008 )	15:30	visit of Linac4 building site - Richard Francis Morton (CERN) ( 1-1-025 )			14:00	Inter-cavity sections & integration- Frank Gerigk (CERN) (until 16:00) ( 6-2-004 )	14:30	material delivery- Frank Gerigk (CERN) (until 16:30) ( 6-2-002 )

Indico meeting: 64194

# ISTC contract & budgets

#3888 (regular  
project), #3889  
(partner project)

Monday, 10:40 - 11:40  
6-2-004



# budget cut by ISTC

January 2009: ISTC approves both projects, but cuts the budget for #3888 from 1.35 M\$ to 916 k\$. In order to save the project the following steps were taken:

- ✦ **in 3889:** skip the baking of long half cells after copper plating, which means no extension of the baking oven is necessary (saves 50 k\$)
  - ➔ during the prototype manufacturing no degrading of the plating was ever observed after baking,
  - ➔ for the series, the shorter tanks will be baked to verify the copper plating, but then the longer ones will not be baked.
- ✦ **in 3888:** remove the construction of the supporting frames and do the assembly and testing on simpler structures,
- ✦ CERN will pay an additional 185 k\$

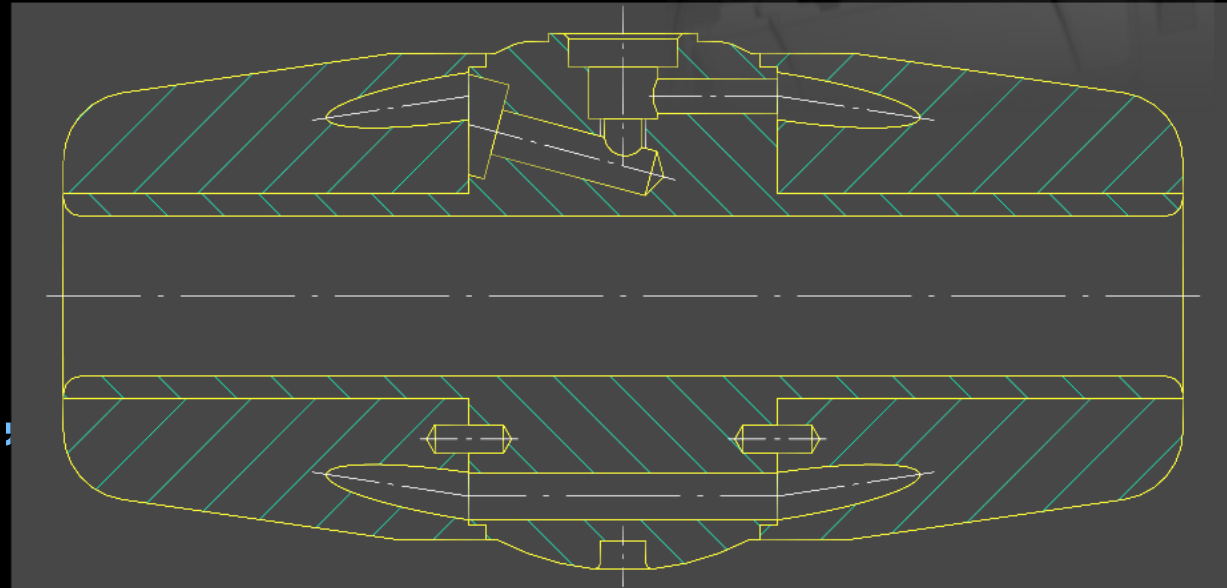
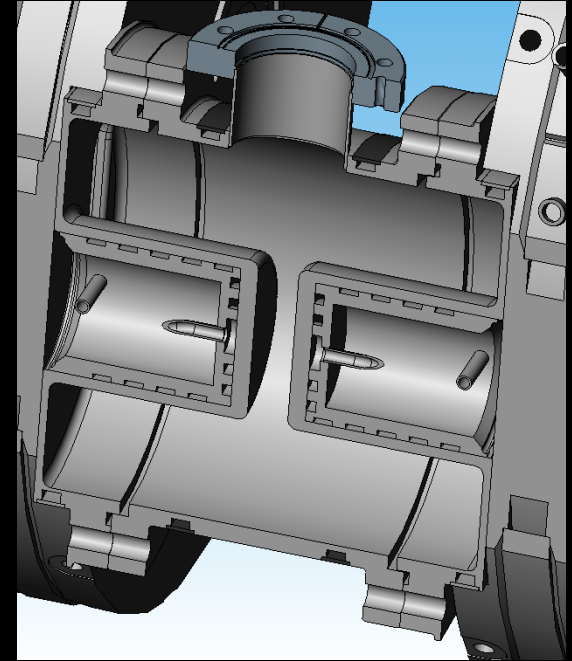
# Visit of 3 MeV test stand

**Monday, 11:40**

# Construction & cooling

Tuesday, 9:00 - 11:30  
354-1-001

- drift tube construction technique,
- cooling system/water connections,
- DT alignment,
- stem/drift tube connection,
- stem/tank connection,
- RF port



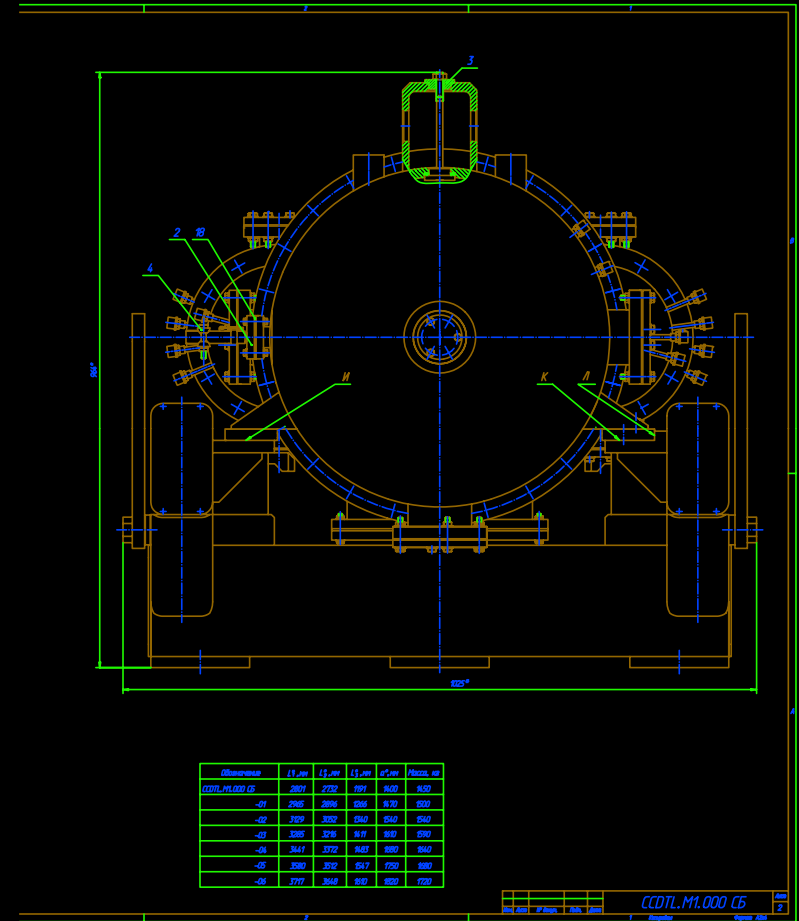
structure  
dimensions  
**after re-matching  
for beam dynamics**

**Tuesday, 9:00 - 11:30  
354-1-001**



Tuesday, 14:00 - 16:00  
6-2-008

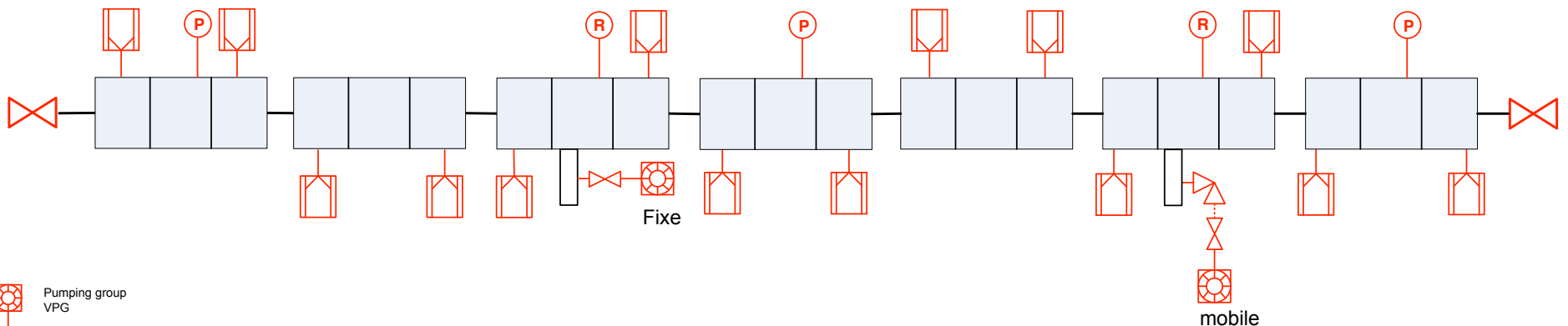
support  
structure &  
alignment  
concept by BINP/  
VNIITF, construction  
by CERN



Wednesday, 9:00 - 11:30  
6-2-004

# vacuum ports and flanges

- keep same vacuum port grid as for prototype: (14x) DN160 CF,
- ports for RF pick-ups and vacuum gauges: (35x) DN40 CF,
- tuners coupling cells: DN63 CF,
- tuners accelerating cells: DN 100 CF,



# visit of Linac4 building site

**Wednesday, 15:30**  
**parking Resto 2**



# number of ports

ports	ports p. module	total	flange	comment
vacuum gauge/RF pick-up	5	35	DN40 CF	
vacuum pumps	2	14	DN160 CF ??	NW150 pump flange
tuners coupling cells	2	14	DN63 CF	
tuners tanks	6	42	DN100 CF	
RF coupler	1	7	Helicoflex	custom made
beam pipe	6	42	?	

# quality assurance

- follow-up, milestones,
- test sequence,
- meeting schedule,
- monitoring,

Friday, 9:00 - 10:30  
354-1-001



summary

**Friday, 11:15**  
**354-1-001**

Friday, 14:30 - 16:30

6-2-002

# Material orders & delivery

steel, copper,  
conflat flanges,  
gaskets, SERTO  
fittings, port tubes,  
etc.

