

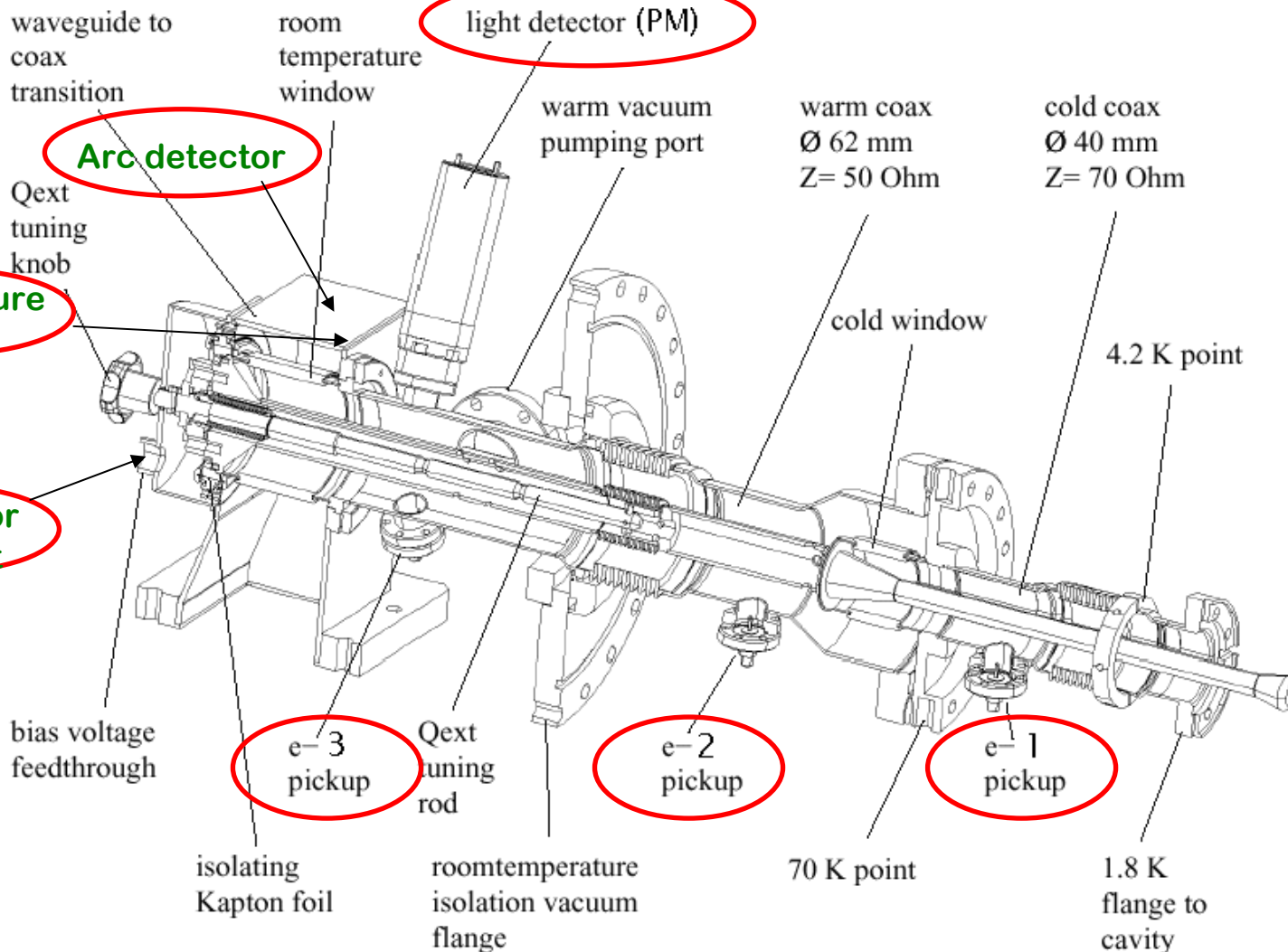


Interlock System for Coupler Conditioning

Eiji Kako
(KEK, Japan)

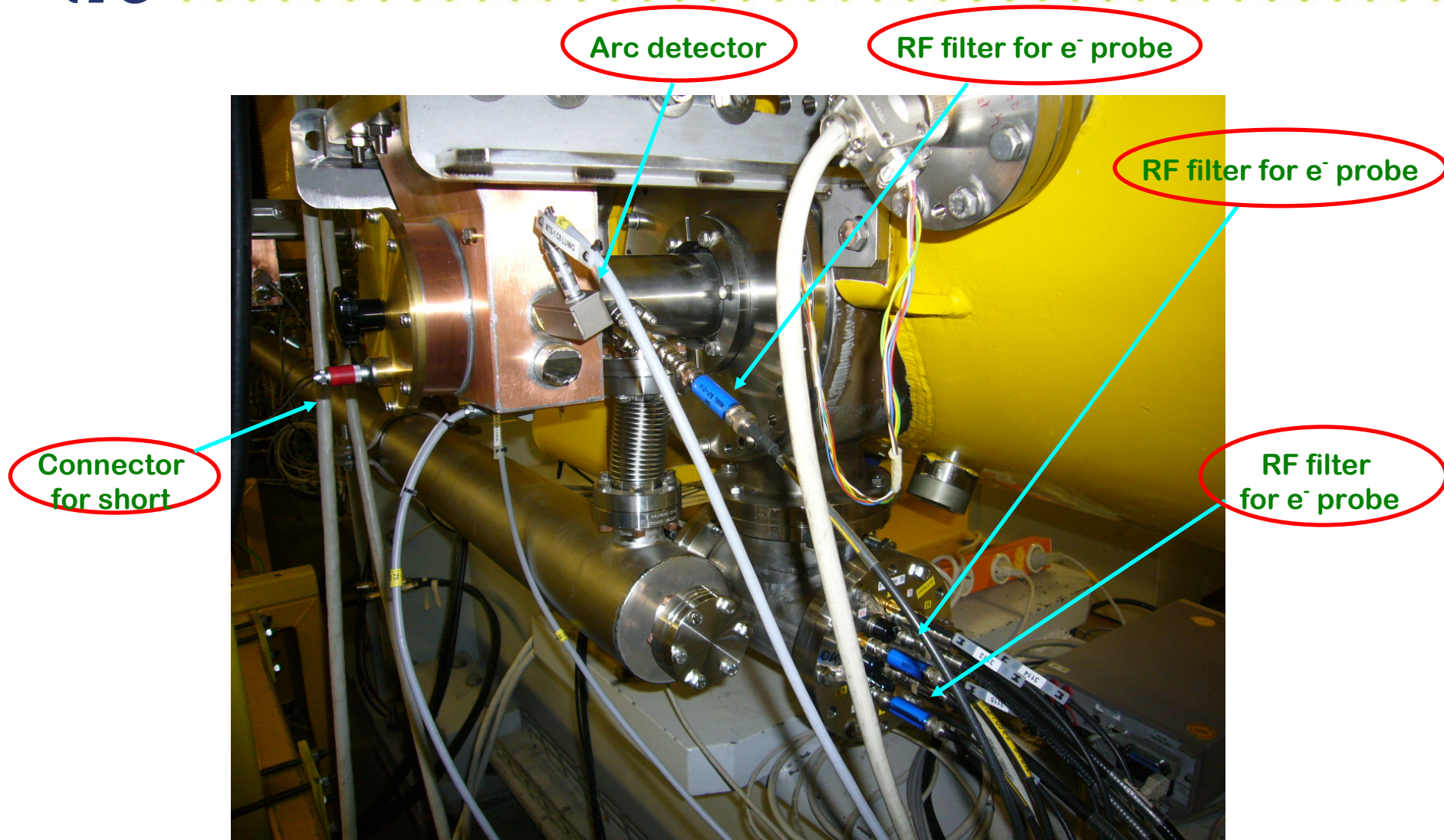


TTF-III Input Coupler



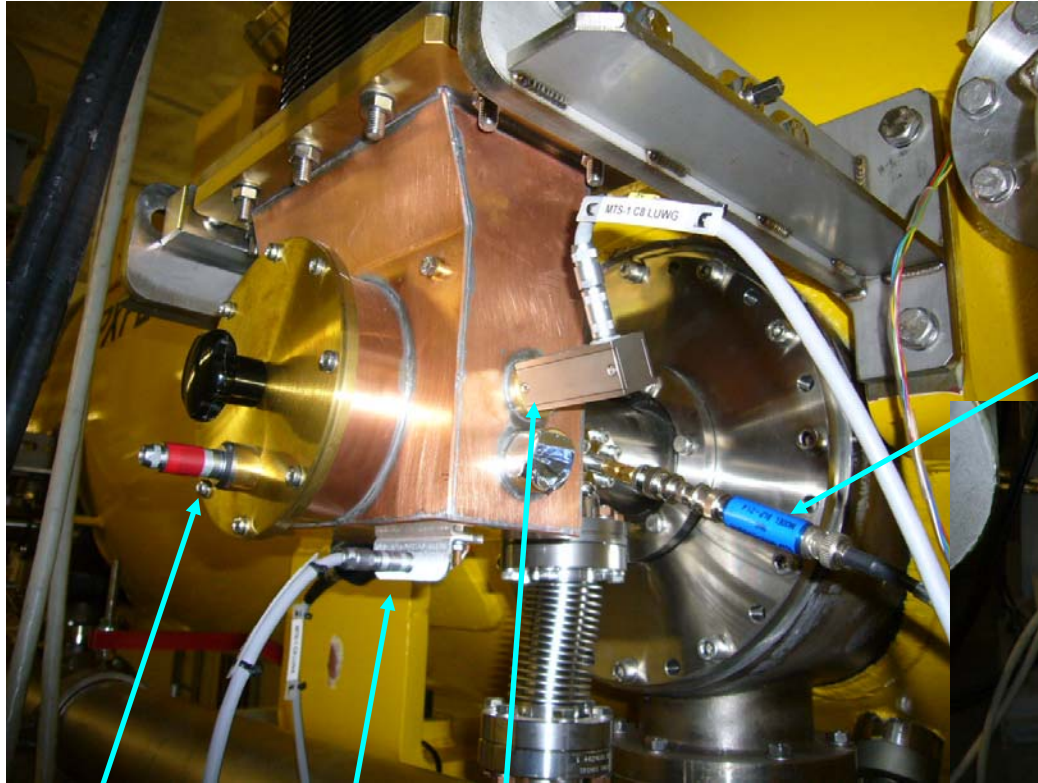


TTF-III Input Coupler at DESY





TTF-III Input Coupler at DESY

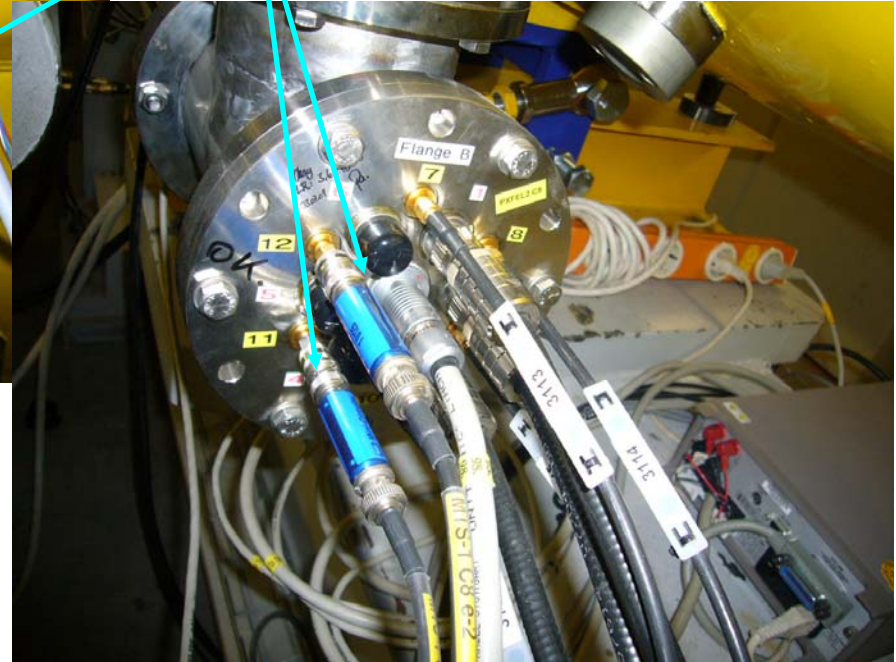


RF filter
for e^- probe

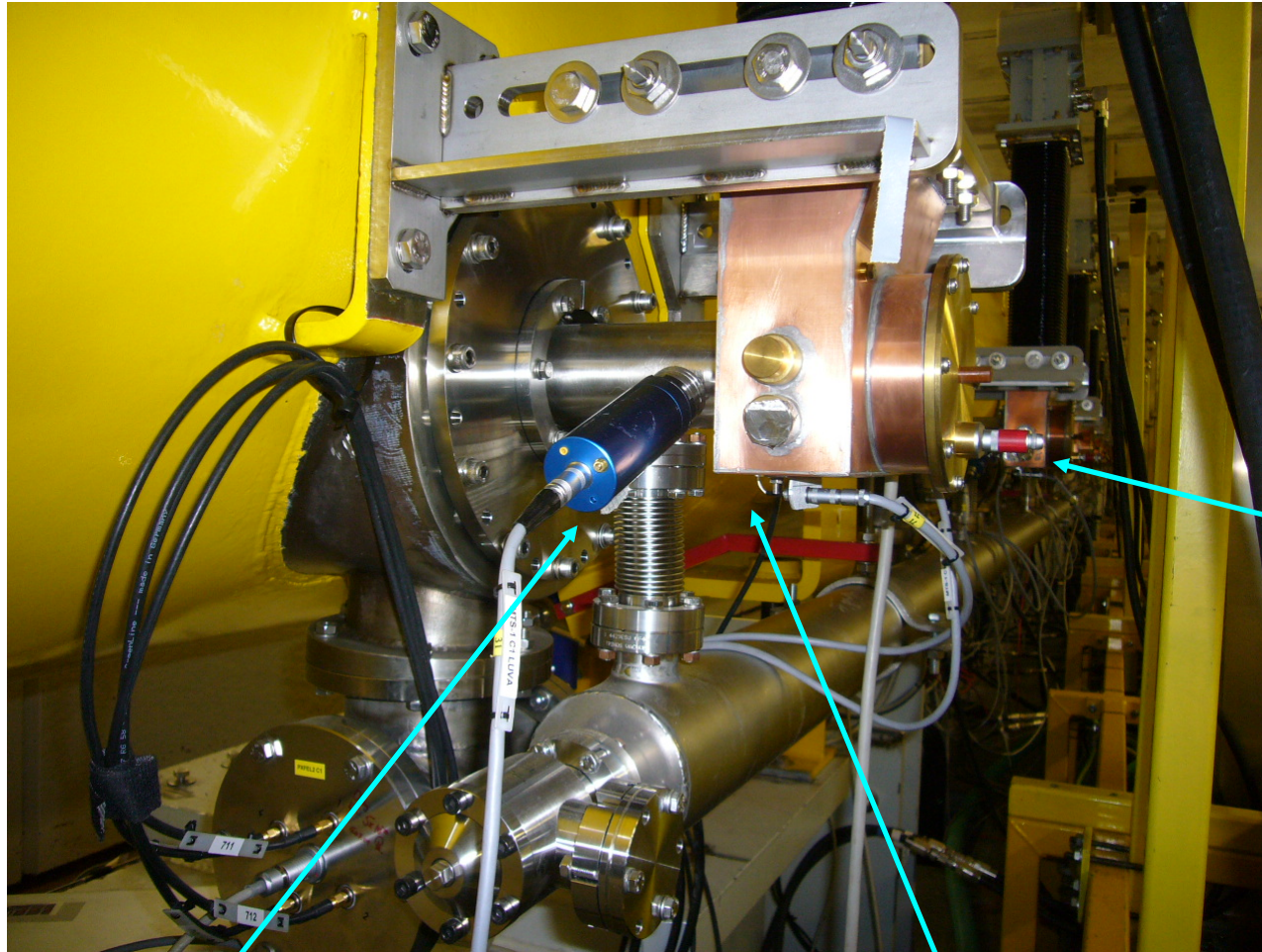
Connector
for short

Arc detector

Temperature
Sensor



TTF-III Input Coupler at DESY



Light detector
Photo multiplier

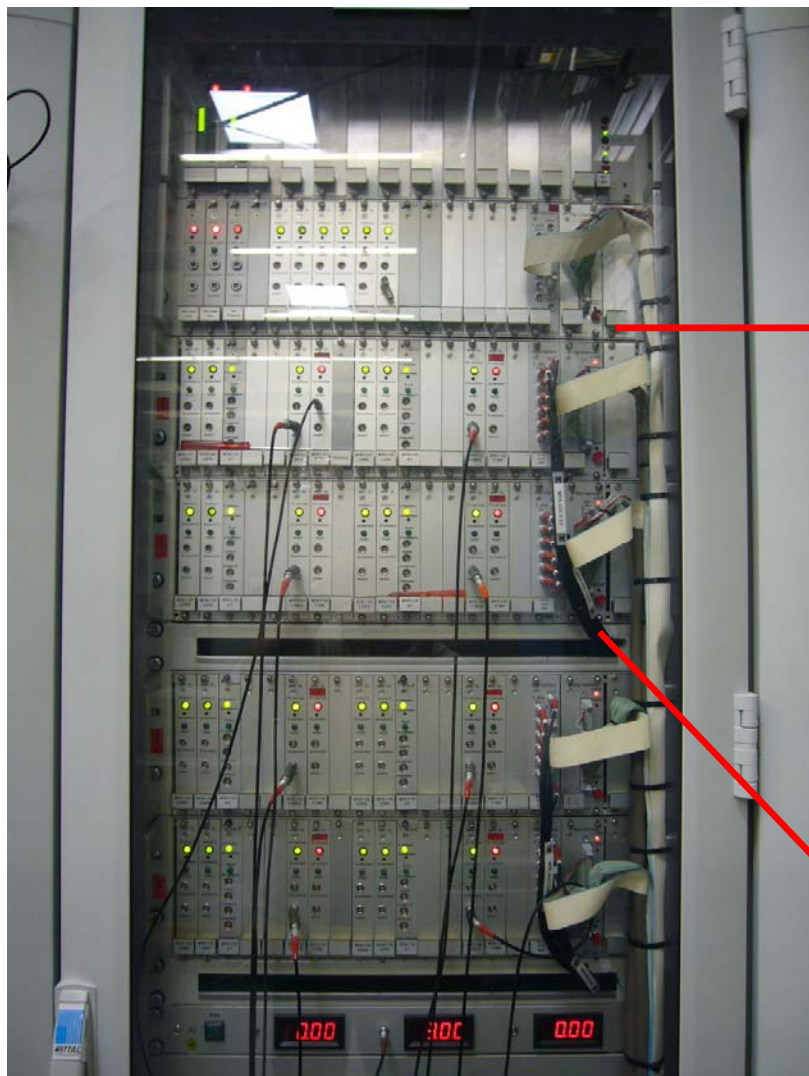
Temperature
Sensor

Connector
for short



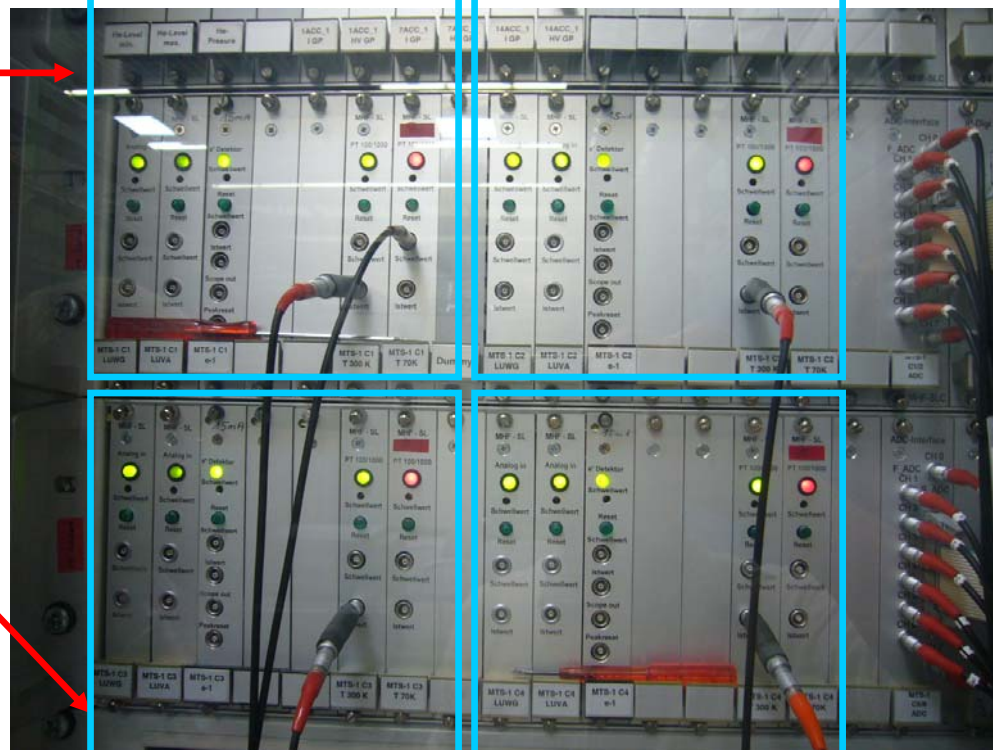
TTF-III Input Coupler at DESY

DESY Interlock System for Input couplers



#1 Coupler

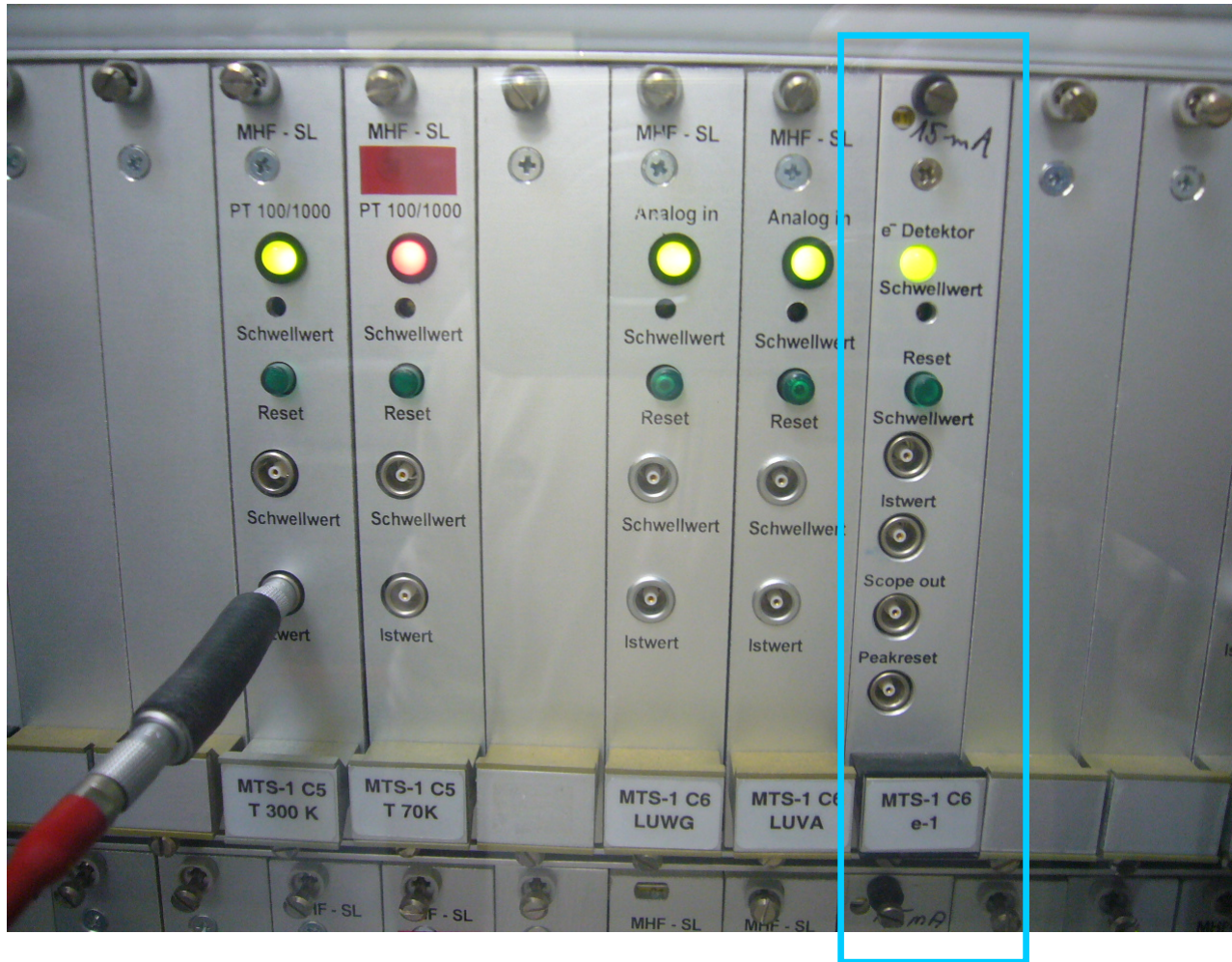
#2 Coupler



#3 Coupler

#4 Coupler

TTF-III Input Coupler at DESY



e⁻ Interlock module



TTF-III Coupler Conditioning at KEK

KEK ask DESY/FNAL to deliver the following items before conditioning TTF-III couplers;

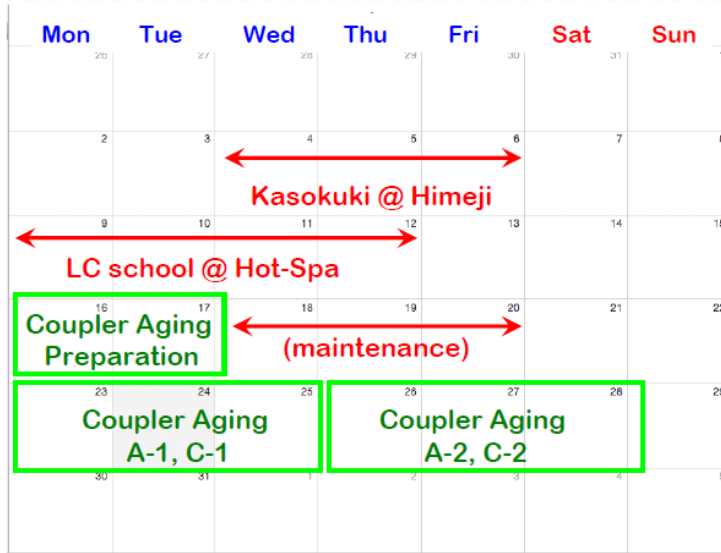
1. **3 short connectors** for bias voltage feedthrough
(One is at KEK from DESY)
2. **11 RF filters** for e^- probes
(One is at KEK from DESY)
3. **4 interlock modules** with a rack case for e^- probes
4. **Set-up and adjustment of the interlock system by DESY/FNAL will be necessary.**



TTF-III Coupler Conditioning at KEK



August, 2010



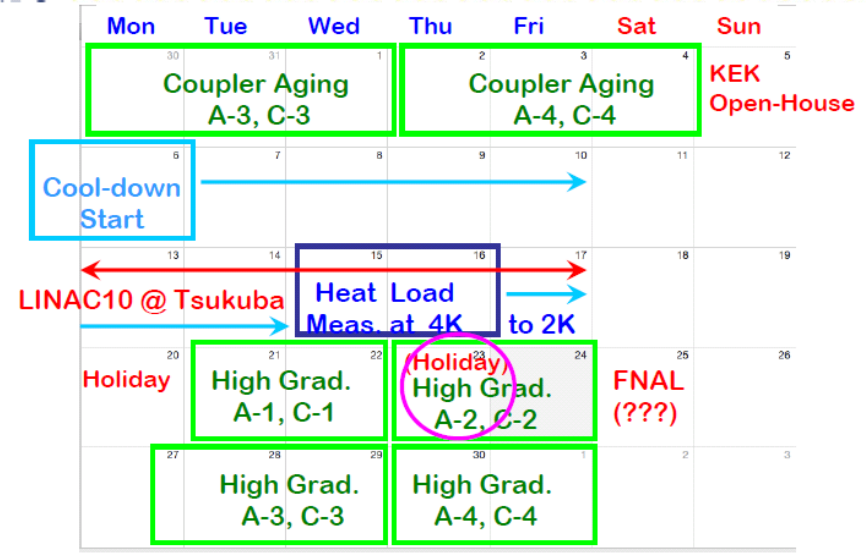
E. KAKO (KEK)
2010' June 11

S1-G @ STF meeting
Global Design Effort

6



September, 2010



E. KAKO (KEK)
2010' June 11

S1-G @ STF meeting
Global Design Effort

8

Coupler conditioning at room temperature is scheduled in **23rd Aug.** ~ 4th Sept. for 2 weeks.

High power tests at 2 K will be started in **21st Sept.** after the LINAC10 conference at Tsukuba.

E. KAKO (KEK)
2010' June 29

S1-G@Webex meeting
Global Design Effort

9