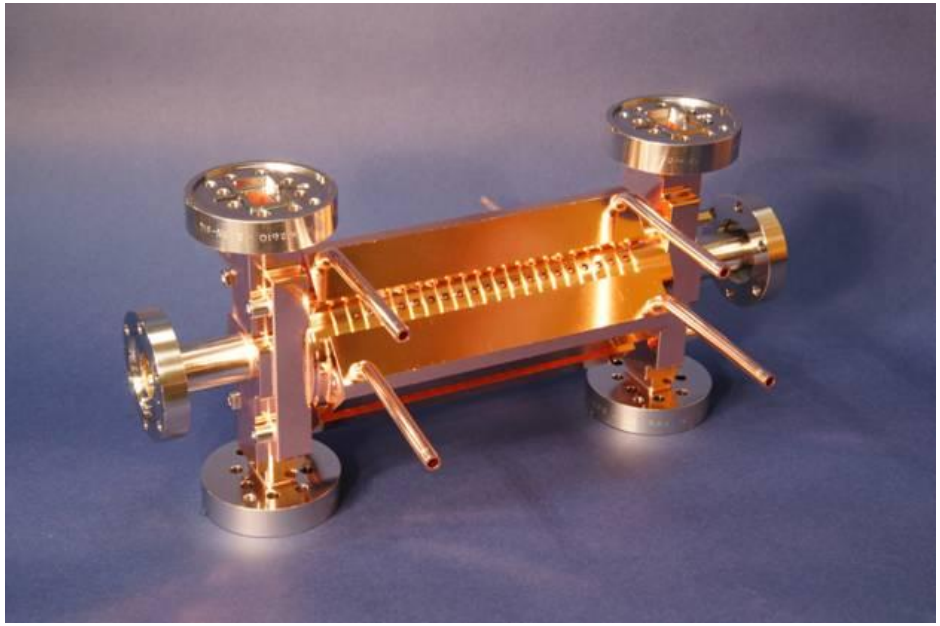
Welcome to the 4th annual X-band structure collaboration meeting

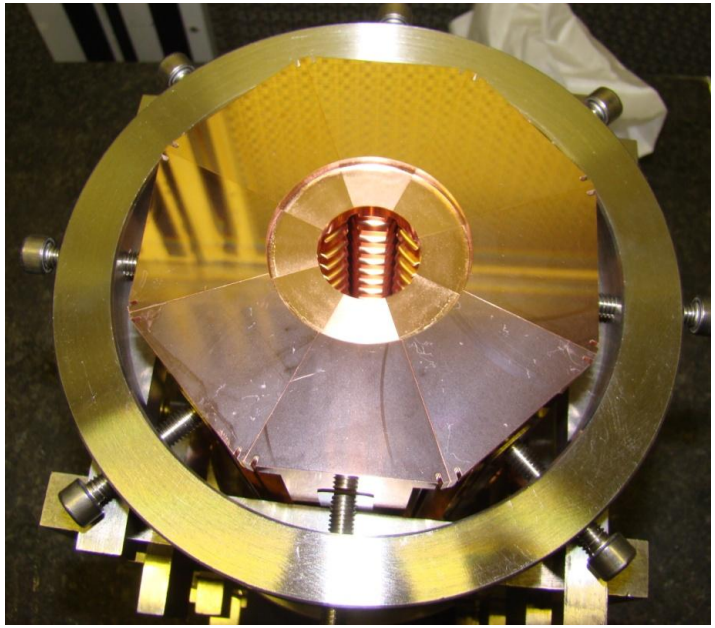
2007 – CERN

2008 – KEK

2009 – SLAC

2010 - CERN





Introductory talk won't be until Wednesday morning, but I would like to cover a few organizational issues.

This week is busy:

X-band collaboration meeting – Monday through Wednesday morning.

CTF3 collaboration technical meeting – Wednesday and Thursday.

Breakdown physics workshop – Thursday and Friday.

On Wednesday morning there is a joint session between X-band and CTF3.

We will have a common drink for all three meetings in the globe on Wednesday evening at 18:30.

X-band collaboration meeting

Sessions:

- High power testing
- Structure design
- Calculation and measurement (high power and breakdown at the breakdown workshop)
- Structure production
- Subsystems
- High-power test areas (joint session with CTF3)

We are using Indico for this meeting, so please upload your talks to the website.

Almost all talks are 20 minutes long with 10 minutes for discussion. *Please* stay within these times, the program is quite full and the schedule goes past 18:00. *Continue* your discussions during coffee or over beer or meet for dinner.

LOCATION

Monday – BE auditorium
Tuesday – Council chamber (near restaurant 1)
Wednesday – BE auditorium

This past year has seen significant progress operating accelerating structures in the range of 100 MV/m, now with damping features as well, and PETS in the range of 150 MW.

In the near-term we have a little bit further to go to fully meet CLIC high power specifications. Then we need to reproduce the results, implement a few changes to enhance performance and solidify our understanding of the important parameters. This should give us a solid baseline.

In the longer term we need to have covered all the aspects associated with the structures – beam loading, tolerances, vacuum, cooling, diagnostics, etc. – and take steps to reduce costs. Alternative structure designs will be important for this.

I hope we can make good progress at this meeting in reviewing our work and planning which is directed towards these CLIC goals, but also spread what we have learned about building rf structures high-gradients towards other applications and to new collaborators.

I wish you a interesting, productive and enjoyable workshop!

Walter