

Concept of the RF Transmitter for the Willy Wien Laboratory

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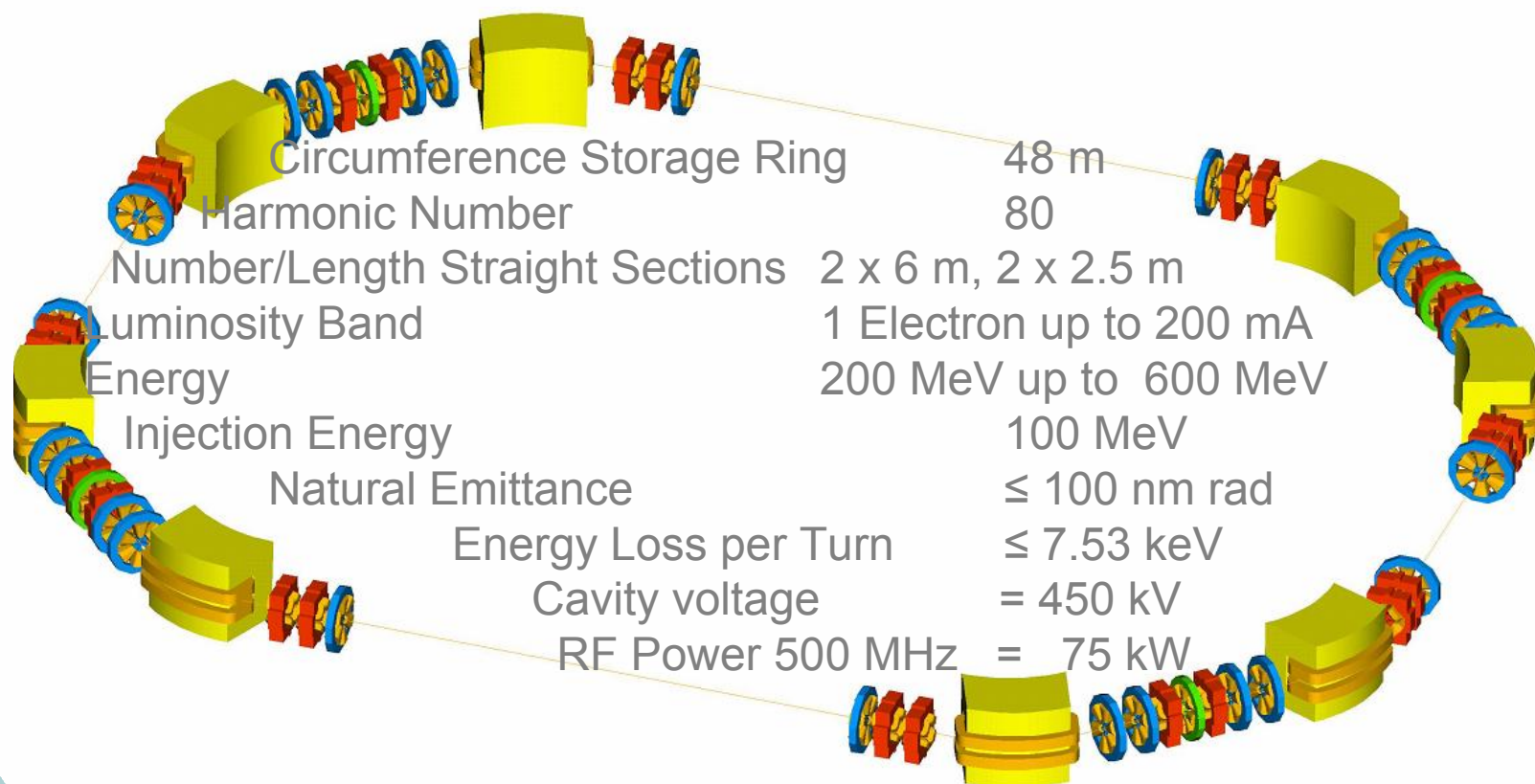
- Building
- Parameter
- Cavity
- Transmitter concept
- Time schedule

The Building September 2005

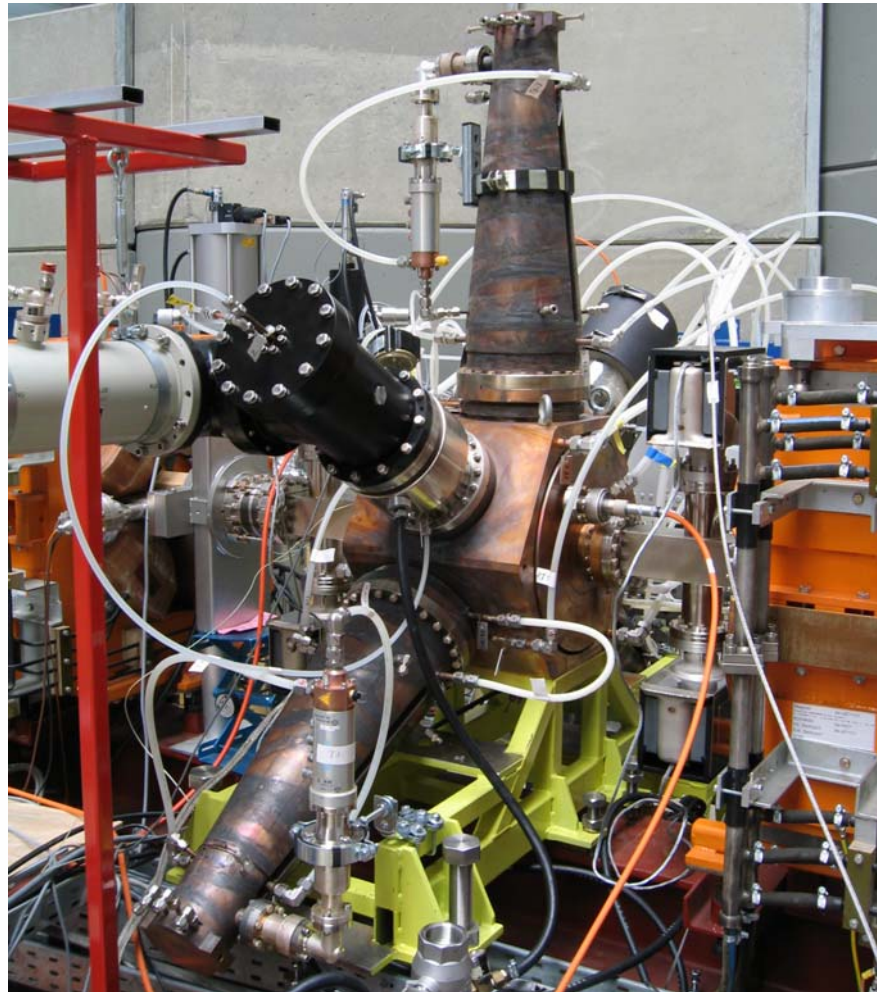


View out of my bureau to the Willy Wien Lab. Building

Willy Wien Laboratory Parameter



Cavity



The EU-Cavity installed at the DELTA storage ring

We will use one
single cell EU-Cavity
with ferrite dampers

→ See talk of
E.Weihreter

Transmitter concept

Call for tender power supply including

- All power supplies (switched)
- PLC control:
 - Power supplies control
 - Power supply interlocks
 - Cavity interlocks
 - Cavity tuning control
 - Pre amp control

Call for tender IOT tube

Call for tender pre amp

Call for tender RF lines

Call for tender circulator

Low level RF in house

Cheaper price than buying at a transmitter company, because every company is specialized on their product. BESSY buy the single parts, give the knowledge of the PLC to the power supply company and put all together.

Time Schedule

- Cavity order 7/2005
- Call for tender power supply, IOT, RF-lines 9/2005
- Order power supply, IOT, RF-lines 11/2005
- Building ready 1/2006
- IOT delivery 4/2006
- Cavity delivery 5/2006
- Microtron commissioning start 6/2006
- Power supply delivery 7/2006
- Storage ring commissioning start 3/2007 (depending on budget timing problems)
- Start user operation 1/2008