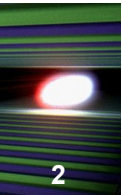


Status of RF Tests on Series Cavities for European XFEL

Detlef Reschke / DESY

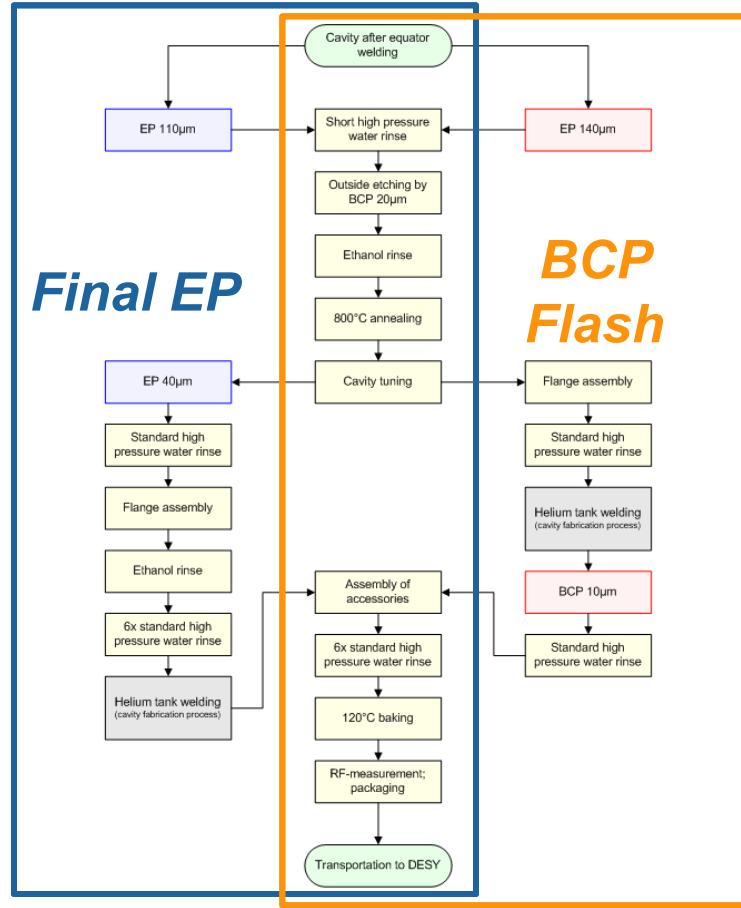
for all colleagues working on XFEL series cavities





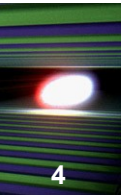
■ **Two schemes for the final surface treatment:**

- E. Zanon: **BCP Flash**
- Research Instr.: **Final EP**

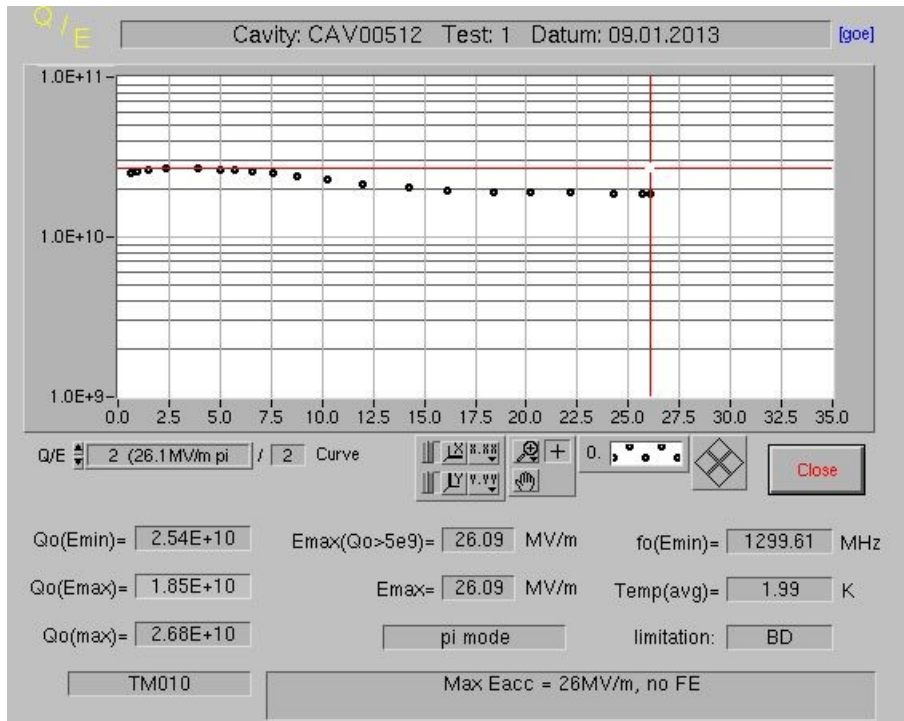


- At each company:
 - 4 Cav's for set-up of infrastructure
 - 4 Cav's for qualification of infrastructure
- **Close supervision of infrastructure, processes, procedures and handling by DESY + INFN Milano required**
- **No performance guarantee results in:**
 - the risk of unexpected low gradient or field emission is with DESY
 - responsibility for re-treatment at DESY

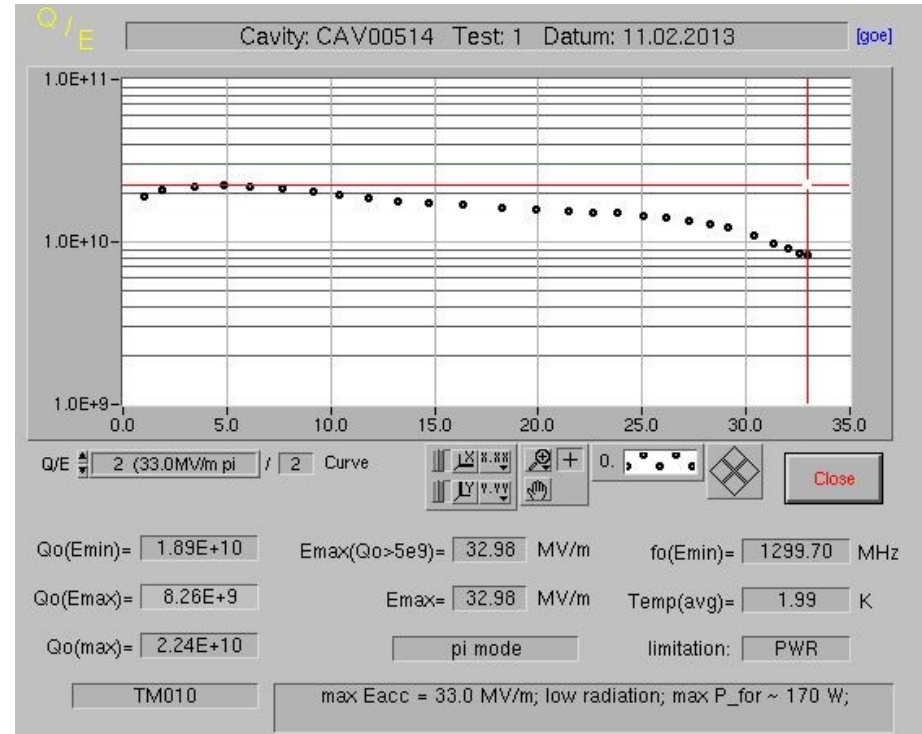
- **RI:**
 - several cavities mechanically completed (w/o He-tank)
 - surface preparation started (waits for final qualification of all preparation steps)
- **EZ:**
 - 7 pre-series cavities arrived at DESY
 - => 2 qualified
 - => 1 requires add. HPR due to early FE
 - => 4 cavities to be tested / vertical test ongoing
 - series production + surface treatment started
 - start of delivery of series cavities end of Feb 13
- **DESY:**
 - new test infrastructure at AMTF started operation (cryostat 1 with insert 1)
 - first cavities successfully tested



■ CAV00512 + CAV00514: Qualified for string assembly



■ CAV00512 limited by quench, no radiation



■ CAV00514 limited by power, some radiation