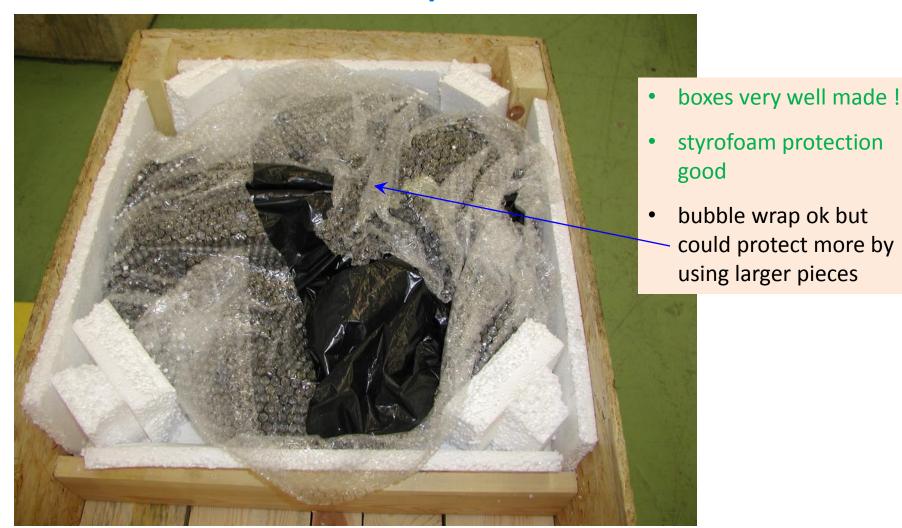
### Improvements for next parts

PIMS production meeting 26-27 February 2013

Rolf Wegner

# Reception of PIMS elements 20.12.2012 transport box



# Reception of PIMS elements 20.12.2012 plastic bags filled with nitrogen



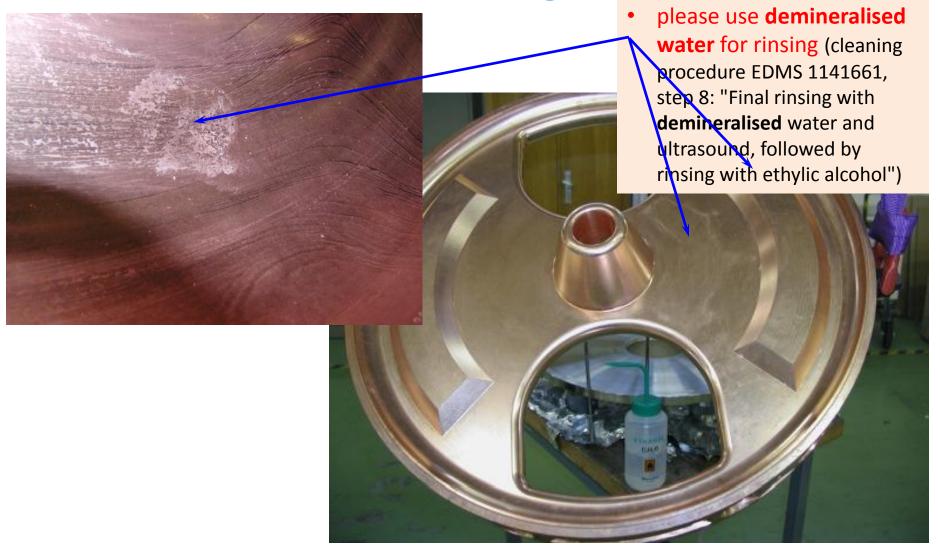
# Reception of PIMS elements 20.12.2012 plastic bags filled with nitrogen



 examples of packed structures: plastic bag filled with
 nitrogen and heat sealed



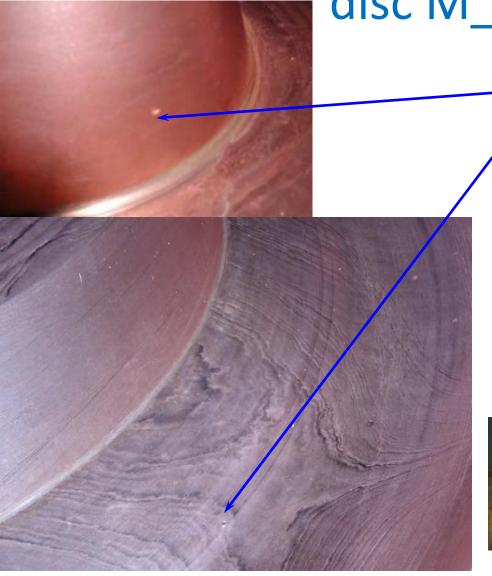
Reception of PIMS elements 20.12.2012 cleaning



### Reception of PIMS elements 20.12.2012 ring M\_13-14



Reception of PIMS elements 20.12.2012 disc M\_6-7 (CPL?)



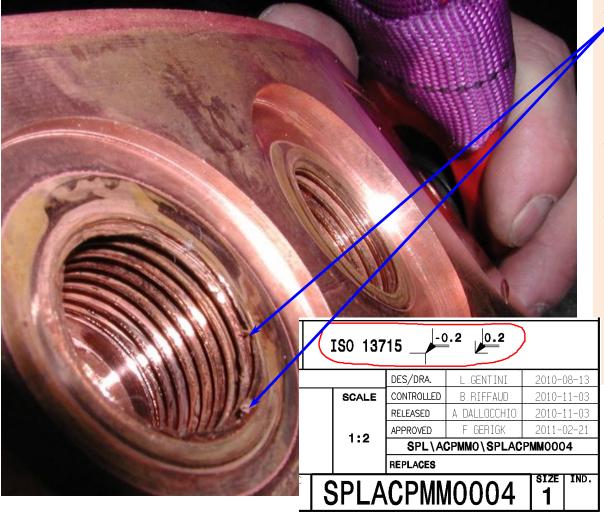
plenty of defects, only a few are
 shown here

please handle parts carefully, particularly in **CPL** 

 please include a visual inspection report as specified in the Quality Assurance report for each part

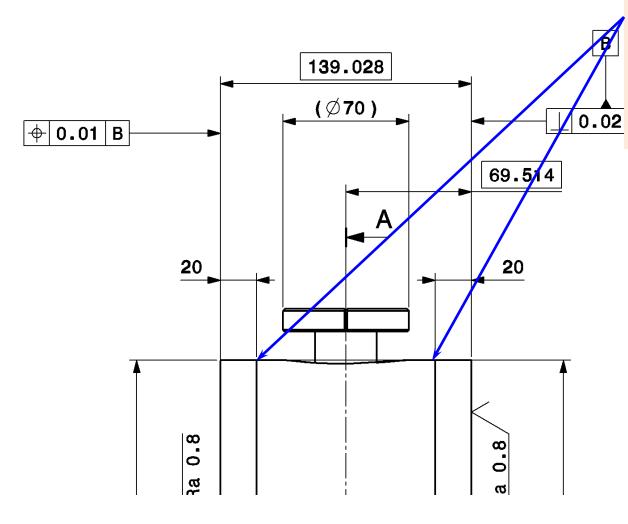


## Reception of PIMS elements 20.12.2012 disc M 6-7



- joints for the vacuum test and for the cooling connection will be destroyed
- all 16 threads have this problem
- important to chamfer particularly this edge with R≤0.2, indicated on the drawings as well as stressed in the technical specifications

## Assembly of PIMS elements burrs



 a sharp edged ring (burr) has been seen here. Please take care to chamfer here as well with R≤0.2 as specified
 problematic for our alignment tool for welding

### Improvements for next parts

#### Points shown:

- please use more bubble wrap for better protection
- please use heat sealed plastic bags filled with nitrogen
  procedure: place PIMS element, evacuate as much air as possible out of the bag,
  fill bag with nitrogen (from the bottom), evacuate gas (air/nitrogen mixture; from
  the bottom) again, fill bag with nitrogen (from the bottom) again and finally heat
  seal bag
- please follow closely the cleaning procedure (EDMS 1141661)
- please handle parts with care, particularly in CPL. So much effort is made in reaching the required tolerances...
- please chamfer all edges as specified (R≤0.2), particularly for cooling channels (re-machining of disc M\_6-7) and alignment surface (outside) of rings

### Improvements for next parts

#### Further points:

- please create a visual inspection report for every element, for example in a separate document (simple PowerPoint, etc.)
- radial scratches seen on faces of ring G\_13-14 where joints for vacuum check are
  placed => will be problematic to test similar pieces (ring G\_13-14 is used for
  machining tests, no vacuum test needed).