**Test Superconducting Wire at CERN**

* Ic critical current
  + at 3T, 4.5 K and 1.9K
* RRR
* cross section, to look at filaments
* electrical insulation (breakdown voltage)

**Test Superconducting Cable at Uppsala & Scanditronix**

* measure diameter
  + 3x 0.36 mm = 1.08 to 1.09 mm diameter
* check bending,
  + measure approximate bending radius
  + does it come apart?
* make some photos
  + close-up look with microscope
* measure HV insulation between strands
  + ramp-up to breakdown voltage
  + (put in water bucket, then measure b/w strand and water)
  + strand to strand insulation

**Test Impregnation at Scanditronix**

**NOTE: Quality Control documentation**

**NOTE: Adapt lengths to available cable**

* dummy winding channels
  + approximately 5 to 10 cm length, few channels next to each other, 0.3 mm barrier
  + 2.5\*6.25 mm2 (width x height) -> 10 cables inside channel
  + with cover, Kapton sheet, glass sheet (as in the real magnet)
* optional, small CCT with 1-2 turns
  + 1 channel
* cable to stick out by few cm
  + measure HV insulation between strands
* impregnation
  + resin options:
    - as standard used by Scanditronix (MY750 ?)
    - (paraffin wax)
  + without and with mold release
* after impregnation
  + measure HV insulation between strands
  + thermal shock
    - 10x: dip in liquid nitrogen for a minute to cool down, warm-up to room temperature
  + measure HV insulation between strands
* destructive test
  + cut and polish
  + make photo of cross section
    - check positioning of the cables and strands
    - check for cracks in impregnation