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Microstructural characterisation of superconducting materials

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This presentation shows the current status of the microstructural analyses concerning several superconducting materials, envisioned for diverse components of the Future Circular Collider: Nb₃Sn, YBCO, MgB₂ (Magnets), Tl-1223 (Beam screen) and NbN (RF Cavities). All the samples have to be properly prepared in order to be consequently well characterized by employing different electron microscopy techniques with both Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM). The microstructural investigation represents a fundamental tool for understanding how the material superconducting properties can be enhanced.

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