

Sn Concentration Gradients in Powder-in-Tube Superconductors

M. Cantoni¹, C. Scheuerlein², P.-Y. Pflirter¹, F. de Borman¹,
J. Rossen¹, G. Arnau², L. Oberli² and P. Lee³

¹Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

²European Organization for Nuclear Research (CERN), Geneva, Switzerland

³Applied Superconductivity Center, NMFL,
Florida State University, Tallahassee, FL 32310 USA

Corresponding author: Christian.Scheuerlein@cern.ch

Abstract - The Sn concentration gradients across the A15 phase have been studied by Energy Dispersive X-ray Spectroscopy (EDS) measurements. High spatial resolution EDS measurements in the Transmission Electron Microscope reveal a comparatively strong Sn concentration gradient from the periphery towards the centre of individual Nb₃Sn grains.

IEEE/CSC & ESAS EUROPEAN SUPERCONDUCTIVITY NEWS FORUM (ESNF), No. 11, January 2010
Published in *Journal of Physics Conf. Series (SuST)* 234, 022005 (2010)