Probing exotic superconductors by high sensitivity microcalorimetry

Thierry Klein[1] and Christophe Marcenat[2]

[1] *Univ. Grenoble Alpes, CNRS, Institut Néel*
[2] *Univ. Grenoble Alpes, CEA, PHELIQS*

After a short description of the principle and methods of AC microcalorimetry, I will first focus on the thermodynamic properties of the normal state in high-T_c cuprates, giving evidence for quantum criticality at the onset of the pseudogap phase. Second, I will discuss how specific heat can be used to obtain fruitful information on the H–T phase diagram in "exotic" superconductors, or as a very efficient tool to probe the structure of the superconducting gap in the nematic FeSe superconductor.