

Specific Heat vs Field in the 30 K Superconductor $\text{BaFe}_2(\text{As}_{0.7}\text{P}_{0.3})_2$

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Recently, superconductivity at 30 K has been reported [1] in P-doped BaFe_2As_2 , with 1/3 of the As replaced by P. Magnetic penetration and thermal conductivity measurements [2] indicate a nodally gapped superconductor. We report here on measurements of the specific heat divided by temperature, C/T , as a function of field up to 15 T and down to 0.4 K in order to further investigate the nodal structure with another probe.

References:

- [1] S. Kasahara, et al., arXiv0905.4427.
- [2] K. Hashimoto, et al., arXiv0907.4399.

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