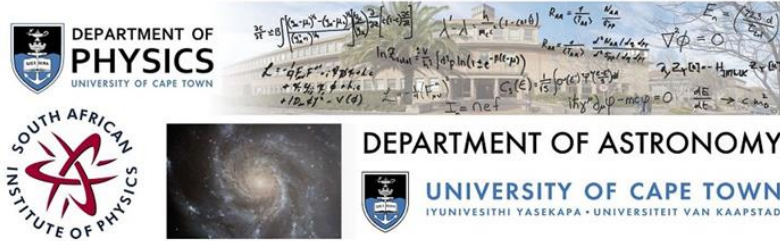


SAIP2016



Contribution ID : 353

Boundary Current Response in $\text{Ba}_{0.34}\text{K}_{0.64}\text{Fe}_2\text{As}_2$ Single Crystals Probed by Non-Resonant Microwave Absorption.

Tuesday 05 Jul 2016 at 15:20 (00h20')

Abstract :

Non-resonant microwave absorption (NRMA) in superconducting materials has become a new experimental technique to probe and understand superconducting materials [1]. For example cuprate superconductors are well studied with this technique [2]. At the same time the technique is also evolving. This technique (NRMA) has been used to study magnetic shielding effects/boundary current in $\text{Ba}_{0.34}\text{K}_{0.64}\text{Fe}_2\text{As}_2$ single crystals of iron pnictides superconducting sample measured at 9.4 GHz below TC (4.2K-36K). It has been established that a small modulation field used in NRMA experiment yield the boundary current response.

Award :

YES

Level :

MSc

Supervisor :

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Paper :

YES

Permission :

YES

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Session classification : Division for Physics of Condensed Matter and Materials (2)

Track classification : Track A - Division for Physics of Condensed Matter and Materials

Type : Oral Presentation