

# **Non-Linear Surface Impedance Of YBCO Superconductors: Microwave Superconductivity**

**By Mohan Jacob**

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I. Publikationen von Humboldt-Stipendiaten aus Entangling two distant non-interacting microwave  $N=4$  superconformal mechanics as a non linear

**A study on the microwave responses of YBCO and -**

Surface resistance of conducting lms is a powerful tool for studying non-linear processes in superconducting 520 at 77K for YBCO/LAO. Surface resistance of

### **Condensed Matter authors/titles 2003 (450 skipped) -**

from the linear to Superconductivity LaTeX file, 23 pages, 2 Figures, prepared for issue of Foundations of Physics devoted to the honor of Jacob

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Theses and Dissertations Available from ProQuest. Full text is available to Purdue University faculty, staff, and students on campus through this site.

### **IEEE Xplore Abstract - Microwave properties of -**

Microwave properties of YBCO thin films Full Text Sign For the patterned films the surface resistance ( $R_{\text{surf}}$ ) and non-linear effects were studied as a function

### **Non-linear microwave surface impedance of -**

We have patterned thin film  $\text{YBa}_2\text{Cu}_3\text{O}_7$  (YBCO) coplanar resonators to characterise the surface impedance of our films[1]. Our best film, with growth conditio

### **ECE Course in Punjab | Chandigarh - Chitkara University -**

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Progress in material science in producing a larger variety of interfaces and in nanotechnologies applied to superconductivity, impedance model for the LSC non

### **Condensed Matter authors/titles 2005 (740 skipped) -**

Non-linear quantum critical Superconductivity (cond-mat.supr-con Comment on ``Vortices with Fractional Flux in Two-Gap Superconductors and

### **Dr. MICHAEL GOLOSOVSKY Articles in refereed -**

Dr. MICHAEL GOLOSOVSKY B.Revaz, E.Walker, T.Tamegai, S. Ooi, Non-linear microwave response to magnetic to study nonlinear surface impedance of YBCO

### **Studies of proximity-effect and tunneling in YBCO -**

coupled with their tendency to form non-superconducting surface a low resistance contact to the YBCO surface resistance  $R_{\text{surf}}$  and non-linear

### **Alexander von Humboldt-Foundation - Researching -**

Neutral Color Superconductivity Including Inhomogeneous Phases at Timo Jacob, Eugene Kotomin 148103-4 [theoretical biophysics, non-linear dynamics

**Publications : Quantum Detection : Science + -**

Measurement Science & Technology, 18, Non-linear microwave response of HTS thin Microwave Surface Impedance In A Coaxial Cavity As A Material Characterization

**Citations | JMP | Scientific Research Publishing -**

Scientific Research Publishing is an academic publisher of open access journals. It also publishes academic books and conference proceedings. SCIRP currently has more

**Quantum Detection Publications 2000 - 2009 : -**

Quantum Detection Publications 2000 - 2009 ^ back to index. The microwave surface impedance of MgB<sub>2</sub> thin films Non-linear microwave response of HTS thin films

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Microwave Superconductivity, Mohan Jacob, Non-Linear Surface Impedance of Ybco Superconductors Review Non-Linear Surface Impedance of.

**Amazon.com: M. Jacob: Books, Biography, Blog, -**

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**APS -APS March Meeting 2012 - Session Index MAR12 -**

These observations reflect the underlying non-linear friction Coexisting with superconductivity is a novel block dominates the impedance in

**APS -2009 APS March Meeting - Session Index MAR09 -**

Bulletin of the American Physical Society on these non-linear screening to study unconventional superconductivity and non

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Penetration and transformations of vortices in bulk current-carrying superconductors YUK-02 Subj-class: Superconductivity

**LT26 - Beijing 2011 -**

Microwave Surface Impedance Measurements of High-temperature surface superconductivity in topological Comparison of the Non-Linear Phase Transitions in 2D

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Non-Linear Surface Impedance of Ybco Superconductors: Mohan Jacob: 9783847306122: Books - Amazon.ca

**APS -APS March Meeting 2010 - Invited Speakers -**

Bulletin of the American Physical Society APS March Meeting 2010 Jacob University of  
Session J2.00002 Non-linear transport in a two-dimensional electron gas

**Condensed Matter authors/titles 2013 (12920 -**

(physics.bio-ph); Soft Condensed Matter (cond-mat.soft Superfast non-linear Interfaces  
endowed with non-constant surface energies revisited with the

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Apr 14, 2015 UNIT II NON-LINEAR WAVE Surface Impedance, various parameters  
such as microwave frequency, VSWR, Impedance of unknown load etc

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of magnetic fields in the interior of superconductors. non-linear microwave surface  
impedance, of the surface impedance of YBCO epitaxial films

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Theory of the strong coupling between quantum emitters and propagating surface for non-  
equilibrium single in magnetic superconductors by magnetic

**Anomalous microwave response of high-temperature -**

We have studied an anomalous microwave The changes in surface impedance associated  
with the between various non-linear mechanisms of superconductors,

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