

# **Pseudogap And Precursor Superconductivity Study Of Zn Doped Ybco Springer Theses By Ece Uykur**

pairing fluctuation theory of high  $T_c$  superconductivity in. conclusion  
springerlink. petition between the pseudogap and superconductivity in.  
the doping phase diagram of  $YCaBaCuZnO$  arxiv. low temperature  
pseudogap phenomenon precursor of high  $T_c$ . low temperature pseudogap  
phenomenon precursor of high  $T_c$ . springer theses recognizing  
outstanding ph d research ece. pseudogap and precursor  
superconductivity study of zn. effects of zn substitution in  $La_2$   
 $XSrxCu_1-yZn_yO_4$ . effects of zn on superconductivity stripe order and.  
pseudogap and precursor superconductivity study of zn. precursor  
superconductivity and superconducting. pseudogap and precursor  
superconductivity study of zn

pairing fluctuation theory of high  $T_c$  superconductivity in  
June 2nd, 2020 - pseudogap has the same origin as the  
superconductivity such as the phase fluctuation scenario of Emery and  
Kivelson 4 and the various precursor superconductivity scenarios 5 10  
previously Chen and co workers have worked out within the precursor  
conductivity school a pairing fluctuation theory 9 11 12'  
'conclusion springerlink

May 13th, 2020 - abstract in this study the charge dynamics of the  
high temperature cuprate superconductor  $YBa_2Cu_1-xZn_xO_7$  over  
the electronic phase diagram have been investigated in a very wide  
doping range as well as for several zn contents both in the normal and  
the superconducting state the temperature dependent reflectivity  
measurements have been performed with'

'petition between the pseudogap and superconductivity in  
December 8th, 2016 - the relationship between the pseudogap and  
superconductivity is one of the central issues in this field spectral  
gaps arising from pairing precursors are qualitatively similar to  
those caused by empty electronic states rendering a standard approach  
to their analysis inconclusive'

'the doping phase diagram of  $YCaBaCuZnO$  arxiv  
February 19th, 2019 - 1 the doping phase diagram of  $Y_1-xCaxBa_2Cu_1$   
 $YzNy_3O_7$  ? from transport measurements tracking the pseudogap below  $T_c$   
y 0 s h naqib1 j r cooper1 and j l tallon2 lirc in superconductivity  
university of cambridge madingley road cambridge cb3 0he uk  
2macdiarmid institute for advanced materials and nanotechnology  
victoria university and industrial research ltd'

'low temperature pseudogap phenomenon precursor of high  $T_c$   
May 22nd, 2019 - low temperature pseudogap phenomenon precursor of  
high  $T_c$  superconductivity yao ma1 peng ye2 and zheng yu weng1 3  
1institute for advanced study tsinghua university beijing 100084  
people's republic of china 2perimeter institute for theoretical  
physics waterloo on n2l 2y5 canada 3collaborative innovation center of  
quantum matter tsinghua university beijing 100084''low temperature  
pseudogap phenomenon precursor of high  $T_c$

September 27th, 2018 - such a model study establishes an intrinsic  
connection between the peculiar pseudogap properties and the non bcs  
nature of the superconducting ground state critical parison with other  
approaches to the doped mott insulator is also made ment revtex4  
twocolumn 30 pages 8 figure'

'springer theses recognizing outstanding ph d research ece  
June 1st, 2020 - pseudogap phenomenon is a precursor of  
superconductivity and the other is that it is an order peting with  
superconductivity all the findings listed above clearly disprove the

---

former interpretation and support the latter although a precursor of superconductivity turns out not to be the origin of the 'pseudogap and precursor superconductivity study of zn

May 29th, 2020 - in this thesis the pseudogap and the precursor superconducting state which are of great importance in clarifying the superconductivity mechanism in high temperature cuprate superconductors are investigated with a c axis optical study in yba<sub>2</sub>cu<sub>1-x</sub>zn<sub>x</sub>o<sub>3-y</sub>

**'effects of zn substitution in la<sub>2</sub>xsrxcu<sub>1-y</sub>zn<sub>y</sub>o<sub>4</sub>**

May 22nd, 2019 - the effect of zn substitution on the superconducting transition temperature  $T_c$  was investigated for the la<sub>2</sub>xsrxcu<sub>1-y</sub>zn<sub>y</sub>o<sub>4</sub> compounds over a wide range of hole concentrations  $p$  and zn content  $y$  in the cuo<sub>2</sub> plane a zn induced rate of suppression of  $T_c$   $dT_c/dp$  was found to be strongly  $p$  dependent and showed a systematic variation with hole concentration'

**'effects of zn on superconductivity stripe order and**

May 17th, 2020 - abstract the effect of zn substitution in the cuo<sub>2</sub> plane on the superconducting transition temperature  $T_c$  was studied for the yba<sub>2</sub>cu<sub>1-y</sub>zn<sub>y</sub>o<sub>7-δ</sub> compounds over a wide range of hole concentration  $p$  and zn content  $y$  zn induced rate of suppression of  $T_c$   $dT_c/dp$  was found to be strongly  $p$  dependent and showed a monotonic variation with  $p$  except in the region of the 60 k' **'pseudogap and precursor superconductivity study of zn**

May 9th, 2020 - in this thesis the pseudogap and the precursor superconducting state which are of great importance in clarifying the superconductivity mechanism in high temperature cuprate superconductors are investigated with a c axis optical study in yba<sub>2</sub>cu<sub>1-x</sub>zn<sub>x</sub>o<sub>3-y</sub> testing was performed over a wide energy range with smaller temperature intervals for several zn substituted samples as well as for several carrier doping levels'

**'precursor superconductivity and superconducting**

May 10th, 2020 - to clarify recent discussions on the precursor superconducting state in high  $T_c$  cuprates we performed a temperature dependent c axis optical study on yba<sub>2</sub>cu<sub>1-x</sub>zn<sub>x</sub>o<sub>y</sub> single crystals in the pseudogap region for several different zn contents  $x = 0, 0.007, 0.012$  and  $0.04$  and doping levels the superfluid density calculation revealed a third temperature scale  $T_p$  for a precursor' **'pseudogap and precursor superconductivity study of zn**

May 19th, 2020 - testing was performed over a wide energy range with smaller temperature intervals for several zn substituted samples as well as for several carrier doping levels ? a spectral weight  $sw$  analysis in which the pseudogap behavior can be separated from the superconducting condensate with the  $sw$  transfer to the high energy region revealed that the pseudogap is not the precursor of the superconductivity carriers moving to the high energy region with pseudogap opening never contribute to'

Copyright Code : [03xYOMwUoIh4yBV](https://doi.org/10.31233/osf.io/3xYOMwUoIh4yBV)