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Celia M. Elliott
PHYS 596 Fall 2017
cmelliot@illinois.edu

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- Eisaki, H. (8)
- Fujita, K. (5)
- Davis, J.C. (5)
- Lawler, M.J. (5)
- Kuzemsky, A.L. (4)

Subject Area

- Physics and Astronomy (101)
- Materials Science (35)
- Chemistry (13)
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Document Type

- Article (93)
- Conference Paper (12)
- Review (7)
- Short Survey (2)
- Book (1)

Source Title

Keyword

Affiliation

<input type="checkbox"/> Symmetry of charge order in cuprates 1	Comin, R., Sutarto, R., He, F., (...), Sawatzky, G.A., Damascelli, A.	2015 Nature Materials	6
DI cover full text View at Publisher			
<input type="checkbox"/> Electronic polymers and soft-matter-like broken symmetries in underdoped cuprates 2	Capati, M., Caprara, S., Di Castro, C., (...), Seibold, G., Lorenzana, J.	2015 Nature Communications	0
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<input type="checkbox"/> Momentum-resolved hidden-order gap reveals symmetry breaking and origin of entropy loss in URu2Si2 7	Barelle, C., Boariu, F.L., Schwab, H., (...), Reinert, F., Santander-Syro, A.F.	2014 Nature Communications	2
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<input type="checkbox"/> Long-range electronic reconstruction to a dxz,yz-dominated Fermi surface below the LaAlO3/SrTiO3 interface 8	Petrovic, A.P., Paré, A., Paudel, T.R., (...), Tsymbal, E.Y., Panagopoulos, C.	2014 Scientific Reports	1
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<input type="checkbox"/> Ergodicity of the hybridization-expansion Monte Carlo algorithm for broken-symmetry states 9	Sémon, P., Sordi, G., Tremblay, A.S.-M.	2014 Physical Review B - Condensed Matter and Materials Physics	1
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<input type="checkbox"/> The chemical physics of unconventional superconductivity 10	Mazumdar, S., Clay, R.T.	2014 International Journal of Quantum Chemistry	2
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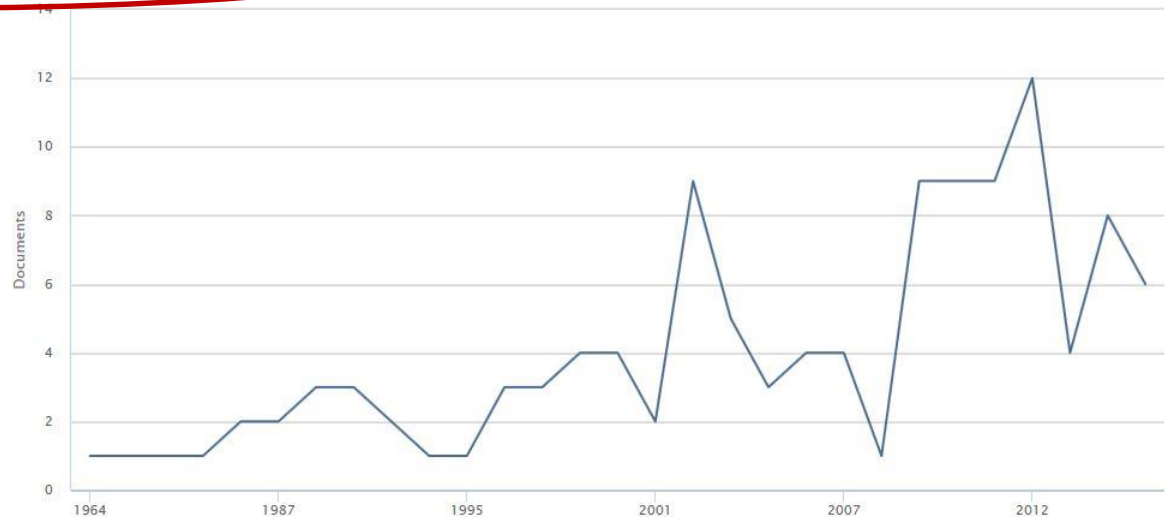
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Documents by year



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Symmetry of charge order in cuprates (Article)

Comin, R.^{ab} , Sutarto, R.^c, He, F.^c, Da Silva Neto, E.H.^{abde}, Chauviere, L.^{abd}, Fraño, A.^{df}, Liang, R.^{ab}, Hardy, W.N.^{ab}, Bonn, D.A.^{ab}, Yoshida, Y.^g, Eisaki, H.^g, Achkar, A.J.^h, Hawthorn, D.G.^h, Keimer, B.^d 
Sawatzky, G.A.^{ab}, Damascelli, A.^{ab} 

^a Department of Physics and Astronomy, University of British Columbia, Vancouver, BC, Canada

^b Quantum Matter Institute, University of British Columbia, Vancouver, BC, Canada

^c Canadian Light Source, Saskatoon, SK, Canada

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Abstract

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Charge-ordered ground states permeate the phenomenology of 3d-based transition metal oxides, and more generally represent a distinctive hallmark of strongly correlated states of matter. The recent discovery of charge order in various cuprate families has fuelled new interest into the role played by this incipient **broken symmetry** within the complex phase diagram of high-T_c superconductors. Here, we use resonant X-ray scattering to resolve the main characteristics of the charge-modulated state in two cuprate families: Bi₂Sr₂xLa_{1-x}CuO₆+(Bi₂201) and YBa₂Cu₃O_{6+y} (YBCO). We detect no signatures of spatial modulations along the nodal direction in Bi₂201, thus clarifying the inter-unit-cell momentum structure of charge order. We also resolve the intra-unit-cell **symmetry** of the charge-ordered state, which is revealed to be best represented by a bond order with modulated charges on the O-2p orbitals and a prominent d-wave character. These results provide insights into the origin and microscopic description of charge order in cuprates, and its interplay with **superconductivity**. © 2015 Macmillan Publishers Limited.

Indexed keywords

Engineering controlled terms: Ground state; Transition metal compounds; Transition metals; X ray scattering; Yttrium barium copper oxides

Charge ordered state; Complex phase diagrams; Microscopic description; Momentum-structure; Resonant X-ray scattering; Spatial modulations; States of matter; Transition-metal oxides

Engineering main heading: Copper compounds

ISSN: 14761122 CODEN: NMAAC Source Type: Journal Original language: English

DOI: 10.1038/nmat4295 Document Type: Article

Publisher: Nature Publishing Group

References (50)

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 Yoshizawa, H., Kawano, H., Tomioka, Y., Tokura, Y.

1 **Neutron-diffraction study of the magnetic-field-induced metal-insulator transition in Pr_{0.7}Ca_{0.3}MnO₃**

(1995) *Physical Review B*, 52 (18), pp. R13145-R13148. Cited 244 times.

doi: 10.1103/PhysRevB.52.R13145

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 Tranquada, J.M., Buttrey, D.J., Sachan, V.

charge order in underdoped cuprates

Mishra, V., Norman, M.R.
(2015) *Physical Review B - Condensed Matter and Materials Physics*

Andreev-Bragg Reflection from an Ameripian Superconductor

Balreuther, P., Hyart, T., Tarasinski, B.
(2015) *Physical Review Letters*

Real-space Eliashberg approach to charge order of electrons coupled to dynamic antiferromagnetic fluctuations

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Colloquium: Theory of intertwined orders in high temperature superconductors

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3	Influence of Ti doping on the incommensurate charge density wave in 1T-TaS2	Chen, X.M., Miller, A.J., Nugroho, C., (...), Van Harlingen, D.J., Abbamonte, P.	2015	Physical Review B - Condensed Matter and Materials Physics	0
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6	Structural contributions to the pressure-tuned charge-density-wave to superconductor transition in ZrTe3: Raman scattering studies	Gleason, S.L., Gim, Y., Byrum, T., (...), Petrovic, C., Cooper, S.L.	2015	Physical Review B - Condensed Matter and Materials Physics	0
7	Erratum: Framing anomaly in the effective theory of the fractional quantum hall effect (Physical Review Letters (2015) 114 (016805))	Gromov, A., Cho, G.Y., You, Y., Abanov, A.G., Fradkin, E.	2015	Physical Review Letters	1
8	Scaling of entanglement in 2 + 1-dimensional scale-invariant field theories	Chen, X., Cho, G.Y., Faulkner, T., Fradkin, E.	2015	Journal of Statistical Mechanics: Theory and Experiment	0
9	Topological pair-density-wave superconducting states	Cho, G.Y., Soto-Garrido, R., Fradkin, E.	2014	Physical Review Letters	2
10	Chern-Simons theory of magnetization plateaus of the spin-12 quantum XXZ Heisenberg model on the kagome lattice	Kumar, K., Sun, K., Fradkin, E.	2014	Physical Review B - Condensed Matter and Materials Physics	2






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