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物性研短期研究会「特異物性発現を担うフォノンの研究における新展開」
東大物性研　6 月 5 - 7 日　2006 年.

50. NMR and Neutron Scattering Studies on $Na_xCoO_2{\cdot}yH_2O$
M. Sato
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June 24-27, 2006 Okinawa..

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Masatoshi Sato
First International Workshop on the Physical Properties of the Lamellar Cobaltates
July 16-17, 2006　Orsay France.

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M. Sato
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茂吉武人、横井麻衣、左右田稔、安井幸夫、小林義明、佐藤正俊、加倉井和久
中性子科学会　2006 年　12 月　水戸.

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M. Sato　invited
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55. Nontrivial な磁気構造を持つ系の異常ホール効果
ーパイロクロア系、スピングラス系を中心にー
佐藤正俊
日本応用磁気学会　第２５回化合物新磁性材料研究会「磁気的フラストレーションが誘起する異常磁気伝導現象 - 異常ホール効果を中心に」
青山学院大学　2007 年 6 月 20 日.

56. $Na_xCoO_2{\cdot}\ yH_2O$ の超伝導：実験
佐藤 正俊、　小林義明、横井麻衣、茂吉武人

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57. Relationship between Magnetic Structure and Ferroelectricity of $LiVCuO_4$
Yukio Yasui and Masatoshi Sato
Nagoya Int. Symposium on Science “Molecular Assembly and Biomolecular Systems”
Nov. 30-Dec.1, 2007, Nagoya Univ.　invited.

58. NMR Studies on the Triangular Lattice System, $Na_xCoO_2 \cdot yH_2O$
Yoshiaki Kobayashi, Mai Yokoi and Masatoshi Sato
Nagoya Int. Symposium “Science of Molecular Assembly and Biomolecular Systems”
Nov. 30-Dec.1, 2007, Nagoya Univ.　invited.

59. 高温超伝導研究とその後の物質開発
佐藤　正俊
第 18 回佐々木学術講演会　Dec.21－22 日　（2007）　東京大学山上会館.

60. 一次元 CuO_2 Ribbon 系の Multiferroic 現象
佐藤 正俊、安井幸夫、内藤豊、佐藤健二
科学研究費特定領域「異常量子物質の創成」研究会
2008 年 1 月 5-7 日　名古屋大学.

61. $Na_xCoO2 \cdot yH_20$ の超伝導
佐藤　正俊
新超伝導物質探索に関する調査成果報告会　Ｈ２０年２月２９日.

62. $Nd_2Mo_2O_7$ の中性子散乱と異常 Hall 効果
安井幸夫、佐藤正俊
日本物理学会、近畿大学　３月２３－２６日　２００８年.

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M. Sato
Int. Symposium on Structure-Property Relationship in Solid State Materials
June 29-July 3, 2008 Nantes France.

64. On the Superconducting State of $Na_xCoO_2 \cdot y\,H_2O$
Masatoshi Sato, Yoshiaki Kobayashi, Mai Yokoi and Taketo Moyoshi
Int. Symposium on Anomalous Quantum Materials 2008 and the 7th Asis-Pacific Workshop, Nov. 8-10, 2008 Tokyo.

65. 物質開発と中性子散乱
佐藤正俊
物質構造科学研究所主催　KENS から JPARC への道程』（池田宏信先生の足跡）
Nov. 28、２００８　〈筑波エポカル）.

66. Fe 族の超伝導の起源について　-実験側からの視点-
佐藤正俊 超伝導検討会
2008 年 12 月 23 日、名古屋大学.

67. 新規超伝導体系の研究と物質探索
佐藤　正俊
「特定領域研究　異常量子物質の創製」成果発表会, 2009 年 1 月 5-７日、東京大学

68. Fe 族の超伝導現況報告
佐藤正俊　JST「Fe 族超伝導研究プロジェクト」全体会議　2 月 14－15 日　葉山、２００９.

69. Studies on the Superconducting Symmetry of $LaFe_{1-y}Co_yAsO_{1-x}F_x$ by Transport, NMR and Neutron Measurements
M. Sato, Y. Kobayashi, S. C. Lee, H. Takahashi, T. Moyoshi, Y. Yasui and S. Tatematsu
Int. Workshop on the Search for New Superconductors
May 12-16, 2009 Shonan Village Center, Japan.

70. Transport and NMR Studies on of $LaFe_{1-y}MnyAsO_{1-x}F_x$ and $NdFe_{1-y}MnyAsO_{1-x}F_x$

Y. Kobayashi, H. Takahashi, S. C. Lee, T. Moyoshi, and M. Sato
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May 12-16, 2009 Shonan Village Center, Japan.

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M. Sato, T. Moyoshi, S. C. Lee, S. Tatematsu, Y. Yasui, Y. Kobayashi, and K. Kakurai
Int. Workshop Physics on Transition Metal Based Superconductors
IMR, Tohoku Univ. June 24-26, 2009 Sendai, Japan.

72. Fe-pnictide 系の超伝導対称性－多種の実験から見えること－
佐藤正俊、小林義明、李尚哲、高橋英史、三浦陽子、里見恵梨佳、茂吉武人、
立松峻一、安井幸夫、加倉井和久
JST 研究領域「新規材料による高温超伝導基盤技術」（TRIP）第 2 回領域会議
（公開シンポジウム） 7 月 10－11 日、東京アキバホール.

73. 農耕作物としての農耕作物としての酸化物伝導体研究
中性子散乱研究 IRT 研究会
佐藤 正俊 東大物性研 8 月 6-7 日 （２００９）東海.

74. Studies on the Superconducting State of $Na_xCoO_2{\cdot}yH_2O$ –Overview-
Masatoshi Sato, Yoshiaki Kobayashi, and Taketo Moyoshi
9th Int. Conf. on Meterials and Mechanisms of 9uperconductivity
9 月８-１２日 （２００９）東京.

学会、研究会等の一般講演

学会、研究会等の一般講演は、50-60 件/年であるが、そのリストは省略する。

外部の委員会委員等

（平成 9 年からの分、それ以前は記録なし）

平成　9 年　1 月－10 年　1 月　学術審議会専門委員（科学研究費分科会）
平成　9 年　4 月－11 年　3 月　東大物性研究所共同利用施設専門委員会委員
平成 10 年　4 月－10 年　9 月　大阪大学大学院理学研究科非常勤講師
平成 10 年　4 月－12 年　3 月　東大物性研究所附属物質設計評価施設運営委員会委員
平成 10 年 10 月－11 年 3 月　島根大学総合理工学部非常勤講師
平成 11 年　1 月－12 年　1 月　学術審議会専門委員（科学研究費分科会）
平成 11 年　4 月－12 年　3 月　九州大学大学院理学研究科非常勤講師
平成 11 年 10 月－11 年　3 月　東大物性研究所共同利用施設専門委員会委員
平成 12 年　8 月－14 年　7 月　日本学術振興会特別研究員等審査会専門委員
平成 12 年　9 月－14 年　8 月　東大物性研究所協議会委員
平成 12 年 10 月－15 年 10 月　日本学術会議物理学研究連絡委員会委員(第 18 期)
平成 13 年　4 月－15 年　3 月　東大物性研究所附属中性子散乱研究施設運営委員会委員
平成 13 年　9 月－15 年　3 月　日本学術会議運営審議会付置国際会議等検討委員会
第 23 回低温物理学国際会議委員会委員
第 23 回低温物理学国際会議組織委員
平成 15 年　4 月－17 年　3 月　東大物性研究所人事選考協議会委員
平成 15 年　4 月－18 年　東大物性研究所人事選考協議会委員
平成 15 年 10 月－17 年 10 月　日本学術会議物理学研究連絡委員会委員(第 19 期)
平成 15 年 10 月－18 年　9 月　物性百人委員会委員長
平成 16 年　9 月－　日本学術会議運営審議会付置国際会議等検討委員会
第 23 回磁性国際会議委員会委員
第 23 回磁性国際会議組織委員
平成 16 年　8 月－18 年　7 月　日本学術振興会特別研究員等審査会専門委員
平成 17 年　1 月－17 年 12 月　日本学術振興会科学研究費専門委員会委員
平成 18 年　4 月－20 年 3 月　新超伝導物質探索調査委員会委員
弟 9 回超伝導国際会議（M^2S）　プログラムサブ委員会委員
Advisory Committee Member of（ＪＳＴと National High Mag Lab./Florida)共催の新超伝導体ワークショップ)
平成 21 年 4 月－22 年　3 月　東大物性研究所中性子実験施設運営委員

受賞等　Paper of Editor's choice in J. Phys. Soc. Jpn. H19 年

（その他）

2003 年 4 月―2007 年 3 月　名古屋大学教育研究評議会評議員として、研究科の中期目標・中期計画作成に当たり、教育と研究の改善に努めてきた。

研究資金受入れ状況（H4 年以降、間接経費を含まず）

文部省科学研究費重点領域研究（H4～6）

高温超伝導の科学―物理班（実験）班長　佐藤正俊　145,000 千円

文部省特別設備費　(H7)　　研究代表者　佐藤正俊 171,000 千円

文部省科学研究費重点領域研究（H7～9）

モット転移近傍の異常金属相―高温超伝導研究班 班長　佐藤正俊

156,700 千円

戦略的基礎研究事業　(H8～13)

低次元異常金属の開発 研究代表者　佐藤正俊　488,900 千円

科学研究費基盤研究（Ｂ）Ｈ14-15 年度　研究代表者　佐藤正俊　14,000 千円

科学研究費特定領域研究（Ａ）Ｈ14-15 年度　研究代表者 佐藤正俊　9,900 千円

科学研究費基盤研究（A）Ｈ16-19 年度　研究代表者 佐藤正俊　37,400 千円

科学研究費特定領域研究（Ａ）　計画研究　Ｈ16-20 年度 研究代表者 佐藤正俊

43,500 千円

戦略的創造研究推進事業「新規材料による高温超伝導基盤技術」（H20－23 年度）

鉄プニクタイド系超伝導研究と物質開拓　研究代表者　佐藤正俊　41,000 千円

主な研究成果

○ 酸化物(超)伝導体を銅酸化物高温超伝導体発見前から研究し、酸化物超伝導研究の草分け的役割を果たした。その例として、以下のようなものがある。

(1) タングステンブロンズA_xWO_3(A=K, Rb等)の超伝導転移温度の決定機構を大型単結晶を用いた中性子散乱によって理解した。

(2) 一次元伝導体であるモリブデンブルーブロンズ$A_{0.3}MoO_3$の大型単結晶を作成し、電荷密度波(CDW)状態とその運動を中性子散乱実験によって解明した。

(3) リチウムモリブデンパープルブロンズ$Li_{0.9}Mo_6O_{17}$の超伝導と電子局在現象の関係を解明した。

(4) ほかに、$BaPb_{1-x}Bi_xO_3$やMagneli相Mo酸化物Mo_nO_{3n-1}等の研究がある。

○銅酸化物高温超伝導体研究にも、最も早くから取り組み多数の成果を挙げた。その例を以下に示す。

(1) タリウム系High-T_cを発見した。

(2) YBCO系High-T_cの大型結晶を作成、その一連の中性子散乱研究で電子物性解明への太い道筋をつけた。

(3) 高温までの輸送特性量測定(図1にデータ例)やNMR、中性子散乱等、巨視的、微視的双方の手段で得た結果から、High-T_c系の異常金属相を端的に表す相図(図2)を提案し、超伝導発現の物理描像を創り上げた。

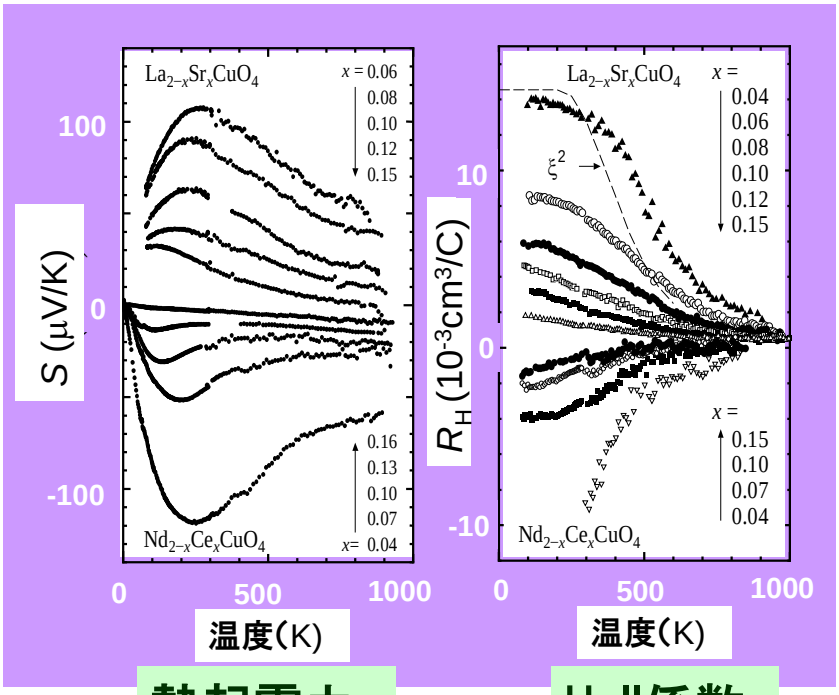

図1

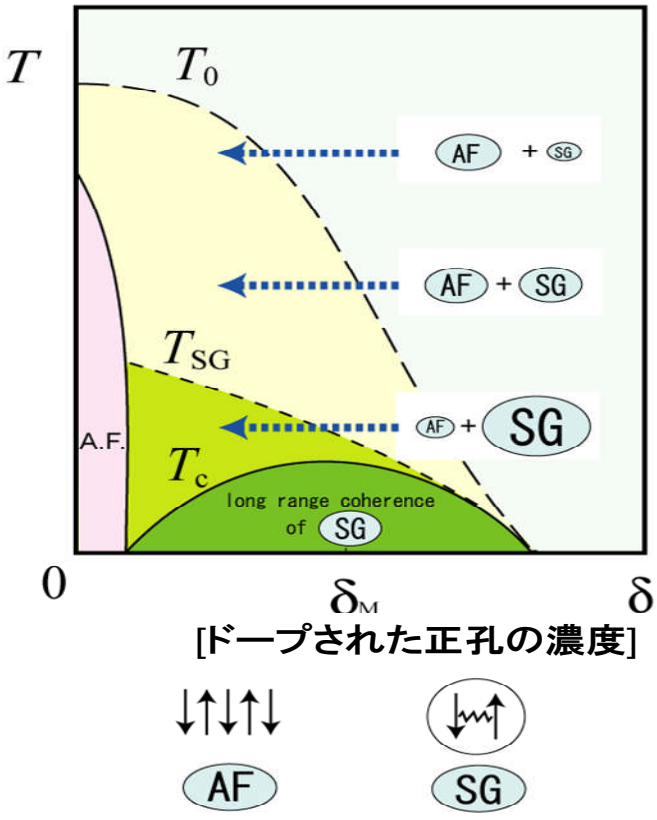

図2 銅酸化物の電子状態の温度変化の概容を表す相図

○ 銅酸化物高温超伝導体研究によって得られた、物質の新しい概念を以後の研究に、図3のような形で発展させた。

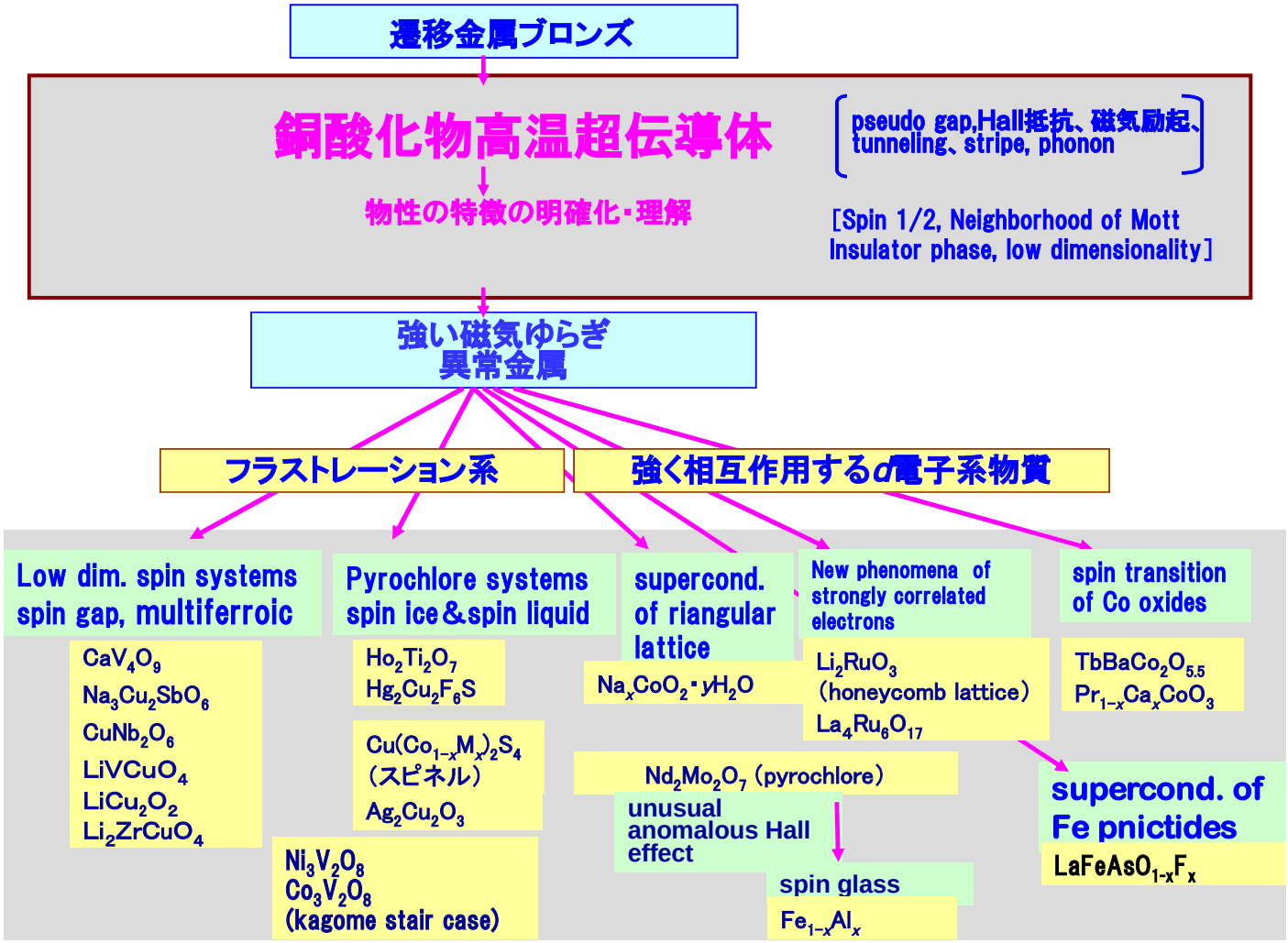

図3

○図3にあげた物質系に対する、具体的成果の例は以下のようである。

（1） $Na_xCoO_2 \cdot yH_2O$の超伝導を広く研究し、超伝導対称性に関する入り乱れていた主張のなかで正しい結果を与えた。

（2） plaquette singlet系のCaV_4O_9を発見した。

（3） $Nd_2Mo_2O_7$の異常ホール効果の特異な振舞を発見したのち、NdとMoの磁気構造を磁場変化まで含めて決定し、特異な振舞と発現機構を論じた。最近、その機構が理論的にも理解されたことにより、このデータは、50年来の課題であった異常ホール効果そのものの発現機構を理解するキーデータとなった。

（4） CuO_2リボン鎖系にはじめて、磁気秩序と強誘電性が同時出現にする、マルチフェロイック現象を発見した。

（5）鉄系に新たに発見された超伝導体の研究プロジェクトの一代表者として対称性研究を牽引し、超伝導発現機構に迫っている。これは、この系が従来にない超伝導発現機構を持つ可能性を強く示唆しているものである。(図4はそれを示すデータ例）

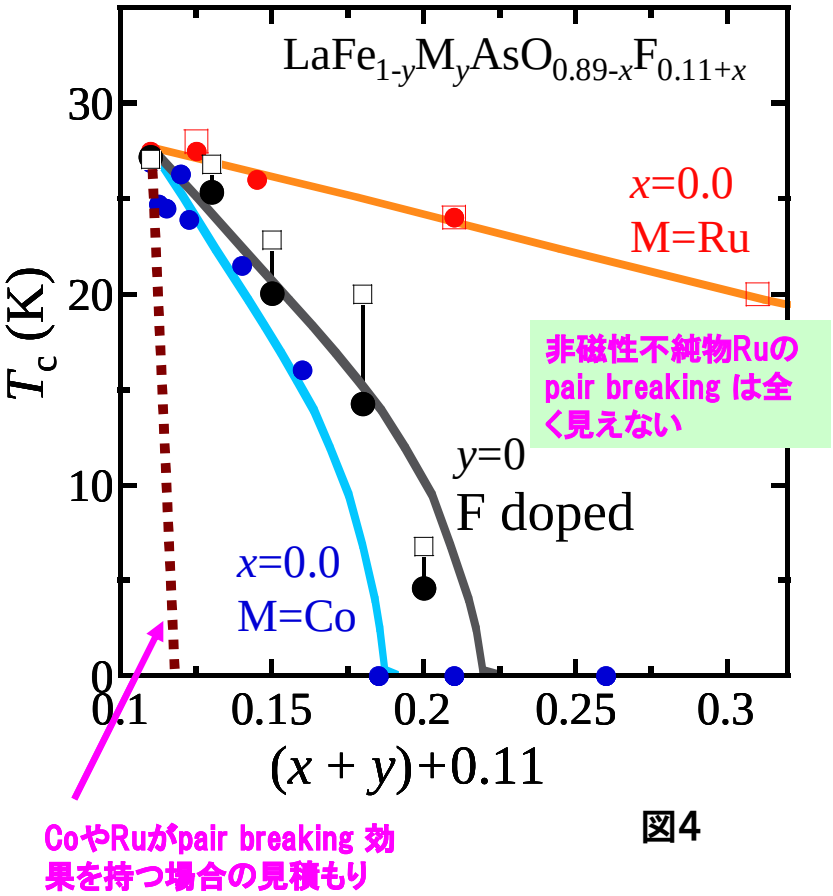

図4

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