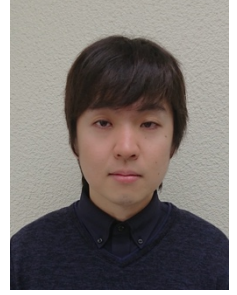


広瀬 悠平 (Yuhei Hirose)



所属 物質・材料研究機構・NIMS ポスドク研究員
電話番号 090-3332-6473
Email HIROSE.Yuhei[at mark]nims.go.jp

学歴

- 2013年3月 東京理科大学工学部物理学科卒業
- 2015年3月 東京理科大学大学院理工学研究科物理学専攻 修士課程修了
- 2018年3月 東京理科大学大学院理工学研究科物理学専攻 博士課程修了
博士（理学）取得

職歴

- 2017年4月～2018年3月 日本学術振興会特別研究員 DC2
- 2018年4月～2019年3月 日本学術振興会特別研究員 PD (DC2 より資格変更)
- 2019年4月～2020年3月 東京理科大学工学部物理学科奨励研究員
- 2020年4月～2020年7月 千葉大学大学院理学研究院特任研究員
- 2020年8月～ 現職

論文リスト

- [11] [Y. Hirose](#), A. Oguchi, and Y. Fukumoto, “Quantum dimer model containing Rokhsar-Kivelson point expressed by spin-1/2 Heisenberg antiferromagnets”, Phys. Rev. B, **101**, 174440 (2020).
- [10] [Y. Hirose](#), A. Oguchi, and Y. Fukumoto, “ dx^2-y^2 -Density Wave and dx^2-y^2 -wave Superconducting Gap on the Extended Hubbard Model on a Square Lattice”, J. Phys. Soc. Jpn, **88**, 084706 (2019).
- [9] [Y. Hirose](#), S. Miura, C. Yasuda, and Y. Fukumoto, “Ground-state properties of spin-1/2 Heisenberg antiferromagnets with frustration on the diamond-like-decorated square and triangular lattices”, AIP Advances **8**, 101427 (2018).
- [8] [Y. Hirose](#), A. Oguchi, M. Tamura, and Y. Fukumoto, “Novel constructive method for the quantum dimer model in spin-1/2 Heisenberg antiferromagnets with frustration on a diamond-like-decorated square lattice”, AIP Advances **8**, 101413 (2018).
- [7] [Y. Hirose](#), A. Oguchi, and Y. Fukumoto, “Emergence of a Dimer-Dimer Interaction in the Low-Energy Effective Quantum-Dimer Model of a Diamond-Like-Decorated Square-Lattice Heisenberg Antiferromagnets with Further Neighbor Couplings”, J. Phys. Soc. Jpn, **86**, 124002 (2017); **87**, 048001 (2018).
- [6] [Y. Hirose](#), S. Miura, C. Yasuda, and Y. Fukumoto, “Notes on Ground-State Properties of Mixed Spin-1 and Spin-1/2 Lieb-Lattice Heisenberg Antiferromagnets”, J. Phys. Soc. Jpn, **86**, 083705 (2017).
- [5] [Y. Hirose](#), A. Oguchi, and Y. Fukumoto, “Ground States of Spin-1/2 Heisenberg Antiferromagnets with Frustration on a Diamond-Like-Decorated Square Lattice”, J. Phys. Soc. Jpn, **86**, 014002 (2017).

- [4] Y. Hirose, A. Oguchi, and Y. Fukumoto, “Exact Realization of a Quantum-Dimer Model in Heisenberg Antiferromagnets on a Diamond-Like Decorated Lattice”, *J. Phys. Soc. Jpn.*, **85**, 094002 (2016).
- [3] Y. Hirose, A. Oguchi, and Y. Fukumoto, “Exact Solutions on the Ground States of Ising Models in Magnetic Fields with Frustration on a Diamond Hierarchical Lattice”, *Physics Procedia, Elsevier*, **75**, pp605-612 (2015).
- [2] Y. Hirose, A. Oguchi, and Y. Fukumoto, “Elucidation of Ground-State Spin Configurations of Ising Models in Magnetic Field with Frustration on a Diamond Hierarchical Lattice”, *J. Phys. Soc. Jpn.*, **84**, 104705 (2015).
- [1] Y. Hirose, A. Oguchi, and Y. Fukumoto, “Infinitely Multiple Steps in Magnetization of Ferro- and Antiferromagnetic Ising Models with Frustration on a Diamond Hierarchical Lattice”, *J. Phys. Soc. Jpn.*, **83**, 074716 (2014).