業績目録（青木秀夫）
A list of publications by Hideo Aoki

January 2017

[Refereed journals]

[2017]

1. Motoharu Kitatani, Naoto Tsuji and Hideo Aoki: nterplay of Pomeranchuk instability and superconductivity
in the two-dimensional repulsive Hubbard model,
Phys. Rev. B, to be published (arXiv:1609.05759).

2. Yuta Murotani, Naoto Tsuji and Hideo Aoki: Theory of light-induced resonances with collective Higgs and Leggett modes in multiband superconductors,
Phys. Rev. B, to be published (arXiv:1511.05762).

[2016]

3. Masahiko G. Yamada, Tomohiro Soejima, Naoto Tsuji, Daisuke Hirai, Mircea Dinca and Hideo Aoki: First-principles design of a half-filled flat band of the Kagome lattice in two-dimensional metal-organic frameworks,
Phys. Rev. B **94**, 081102(R) (2016).

4. Mikito Koshino and Hideo Aoki: Dirac electrons on three-dimensional graphitic zeolites — a scalable mass gap,
Phys. Rev. B **93**, 041412(R) (2016).

5. Yuta Murakami, Philipp Werner, Naoto Tsuji and Hideo Aoki: Multiple amplitude modes in strongly-coupled phonon-mediated superconductors,
Phys. Rev. B **93**, 094509 (2016).

6. Takahiro Mikami, Sota Kitamura, Kenji Yasuda, Naoto Tsuji, Takashi Oka and Hideo Aoki: Brillouin-Wigner theory for high-frequency expansion in periodically driven systems — Application to Floquet topological insulators,
Phys. Rev. B **93**, 144307 (2016).

7. Y. Murakami, P. Werner, N. Tsuji and H. Aoki: Damping of the collective amplitude mode in superconductors with strong electron-phonon coupling,

   Phys. Rev. B **94**, 115126 (2016).

8. Naoto Tsuji, Yuta Murakami and Hideo Aoki: Nonlinear light-Higgs coupling in superconductors beyond BCS: Effects of the retarded phonon-mediated interaction,

   Phys. Rev. B **94**, 224519 (2016).

9. Keita Kobayashi, Masahiko Okumura, Susumu Yamada, Masahiko Machida, and Hideo Aoki: Superconductivity in repulsively interacting fermions on a diamond chain — flat-band induced pairing,

   Phys. Rev. B **94**, 214501 (2016).

10. Tohru Kawarabayashi, Hideo Aoki and Yasuhiro Hatsugai: Lattice realization of the generalized chiral symmetry in two dimensions,

    Phys. Rev. B **94**, 235307 (2016).

11. Yoichi Tanabe, Yoshikazu Ito, Katsuaki Sugawara, Daisuke Hojo, Mikito Koshino,Takeshi Fujita, Tsutomu Aida, Xiandong Xu, Khuong Kim Huynh, Hidekazu Shimotani, Tadafumi Adschiri, Takashi Takahashi, Katsumi Tanigaki, Hideo Aoki, and Mingwei Chen: Electric properties of Dirac fermions captured into 3D nanoporous graphene networks,

    Advanced Materials **28**, 10304 (2016).

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12. Yuta Murakami, Philipp Werner, Naoto Tsuji and Hideo Aoki: Interaction quench in the Holstein model: Thermalization crossover from electron- to phonon-dominated relaxation,

    Phys. Rev. B **91**, 045128 (2015).

13. Yasuhiro Hatsugai, Tohru Kawarabayashi and Hideo Aoki: Survival of sharp $n = 0$ Landau levels in massive tilted Dirac fermions — Role of the generalized chiral operator,

    Phys. Rev. B **91**, 085112 (2015).

14. Y. Hatsugai, K. Shiraishi and H. Aoki: Flat bands in Weaire-Thorpe model and silicene,

    New J. Phys. **17**, 025009 (2015).

15. Sota Kitamura, Naoto Tsuji and Hideo Aoki: An interaction-driven topological insulator in fermionic cold atoms on an optical lattice — A design with a density functional formalism,

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16. Motoharu Kitatani, Naoto Tsuji and Hideo Aoki: FLEX+DMFT approach to the d-wave superconducting phase diagram of the two-dimensional Hubbard model,

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17. Naoto Tsuji and Hideo Aoki: Theory of Anderson pseudospin resonance with Higgs mode in a superconductor,

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18. Masataka Watanabe, Hisato Komatsu, Naoto Tsuji and Hideo Aoki: Electronic structure of helicoidal graphene — massless Dirac particles on a curved surface with a screw symmetry,

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19. A. V. Stier, C. T. Ellis, J. Kwon, H. Xing, H. Zhang, D. Eason, G. Strasser, T. Morimoto, H. Aoki, H. Zeng, B. D. McCombe, and J. Cerne: Terahertz dynamics of a topologically protected state: Quantum Hall effect plateaus near the cyclotron resonance of a two-dimensional electron gas,

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20. Sota Kitamura and Hideo Aoki: η-pairing superfluid in periodically-driven fermionic Hubbard model with strong attraction,

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21. Shintaro Takayoshi, Hideo Aoki and Takashi Oka: Many-body Floquet theory of laser-induced phase transition in quantum magnets,

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22. Yuta Murakami, Philipp Werner, Naoto Tsuji and Hideo Aoki: Supersolid phase accompanied by a quantum critical point in the intermediate coupling regime of the Holstein model,

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23. Hideo Aoki and Yasuhiro Hatsugai: Polarization as a topological quantum number in graphene,

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24. Naoto Tsuji, Peter Barmettler, Hideo Aoki and Philipp Werner: Nonequilibrium dynamical cluster theory,

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25. Hirofumi Sakakibara, Katsuhiro Suzuki, Hidetomo Usui, Satoaki Miyao, Isao Maruyama, Koichi Kusakabe, Ryotaro Arita, Hideo Aoki, and Kazuhiko Kuroki: Orbital mixture effect on the Fermi surface-Tc correlation in the cuprate superconductors — bilayer vs single layer,

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34. Kazutaka Nishiguchi, Kazuhiko Kuroki, Ryotaro Arita, Takashi Oka and Hideo Aoki: Superconductivity assisted by inter-layer pair hopping in multi-layered cuprates,

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