

Final Report (Condensed Matter Physics II)

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Deadline: **31st January 2025**

Choose one paper from the following list of publication and write a review report within four pages. You can use either English or Japanese.

- W. P. Su, J. R. Schrieffer, and A. J. Heeger, *Solitons in Polyacetylene*, *Phys. Rev. Lett.* **42**, 1698 (1979).
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 - F. D. M. Haldane and S. Raghu, *Possible Realization of Directional Optical Waveguides in Photonic Crystals with Broken Time-Reversal Symmetry*, *Phys. Rev. Lett.* **100**, 013904 (2008) [[arXiv:cond-mat/0503588](https://arxiv.org/abs/cond-mat/0503588)].
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 - H. Li and F. D. M. Haldane, *Entanglement Spectrum as a Generalization of Entanglement*

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