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Quantum critical properties in the topological Ginzburg–Landau theory of self-dual Josephson
junction arrays

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Highlights

- We model Josephson junction array by a U(1)XU(1) gauged Ginzburg Landau theory.
- We examine multicritical behavior including the effects of the gauge fields.
- Infrared-stable charged fixed points solutions are found.
- conductivity is universal fixed by the fixed-point values of the gauge couplings