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## **Casimir Wormholes with Temperature and Charge**

*Thursday, 11 July 2024 15:40 (30 minutes)*

We describe the connection between a traversable wormhole and the Casimir effect. With the help of an equation of state we also discuss different forms of solutions related to the Casimir source. The effect of including an electromagnetic field and a temperature to the original energy density are also discussed.

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**Session Classification:** Wormholes, energy conditions and time machines

**Track Classification:** Alternative Theories (AT): Wormholes, energy conditions and time machines