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Holographic Bound of Casimir Effect

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Casimir effect is a novel boundary quantum effect that originates from the changes of vacuum energy due to the boundary. Is there a fundamental bound of Casimir effect? This talk tries to address this critical question. Inspired by the KSS bound, we propose that the holographic theory imposes a universal bound of Casimir effect. We verify this universal bound by free BCFTs, and provide evidence that it applies to a general class of QFTs, not limited to BCFTs.

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