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R^4 corrections to holographic Schwinger effect

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We consider R^4 corrections to the holographic Schwinger effect in
an AdS black hole background and a confining D3-brane background.
The potential between a test particle pair are performed for both backgrounds.
We find there is no potential barrier in the critical electric field,
which means that the system becomes catastrophically unstable.
It is shown that for both backgrounds, increasing the inverse 't Hooft coupling parameter
$1/\lambda$ enhances the Schwinger effect. We also discuss the possible relation
between the Schwinger effect and the viscosity-entropy ratio η/s in strong coupling.

Type

Parallel talk

Sessions (parallel only)

QCD

Primary author: 李, 飞 (China University of Geosicence (WuHan))

Co-author: Prof. CHEN, Gang (Physcal Department, China University of Geosciences)

Presenter: 李, 飞 (China University of Geosicence (WuHan))

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