3rd International Conference on

HIGH ENERGY PHYSICS December 11-12, 2017 | Rome, Italy

Holography in Lovelock Chern-Simons AdS Gravity

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We first find asymptotic symmetries in the AdS sector showing that they consist of local translations, local Lorentz rotations, dilatations and non-Abelian gauge transformations. Then, we compute 1-point functions of energy-momentum and spin currents in a dual conformal field theory and write Ward identities. We find that the holographic theory possesses Weyl anomaly and also breaks non-Abelian gauge symmetry at the quantum level.

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