Abstract Submitted
for the TSF15 Meeting of
The American Physical Society

Lifshitz solutions and the effects of high-order operators[1] XINWEN WANG, Baylor University, JIE YANG, Lanzhou University, MIAO TIAN, Lanzhou Jiaotong University, ANZHONG WANG, YANBIN DENG, Baylor University, CASPER TEAM — e study the effects of high-order operators on the nonrelativistic Lifshitz holography inthe framework of the Hořava-Lifshitz (HL) theory of gravity, which naturally contains high-order operatorsin order for the theory to be power-counting renormalizable, and provides an ideal place for such studies. Inparticular, we show that the Lifshitz spacetime is still a solution of the full theory of the HL gravity. Theeffects of the high-order operators on the spacetime itself is simply to shift the Lifshitz dynamical exponent.

[1]Lifshitz solutions and high-order operators

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Date submitted: 07 Oct 2015 Electronic form version 1.4