

Phase transition grade and microstructure of AdS black holes in massive gravity

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Received 7 June 2022, revised 3 August 2022

Accepted for publication 24 August 2022

Published 8 September 2022



Abstract

Considering that under the framework of the massive gravity theory, the interaction between the mass gravitons and Schwarzschild black hole (BH) could make it carry a scalar charge, the phase transition process caused by this scalar charge is investigated in this analysis. The phase transition grade and microstructure of those BHs are investigated from both macroscopic and microscopic points of view. From the macroscopic point of view, it is found that Ehrenfest equations are satisfied at the phase transition critical point, which implies that the phase transition grade of those BHs is second-order. Based on the BH molecules model and Landau continuous phase transition theory, the phase transition of those BHs from the microcosmic point of view is analyzed. The critical exponents obtained from the two perspectives are consistent. By investigating the Ruppeiner geometry, the microstructure feature of those BHs is revealed. These results suggest that the phase transition of BH in massive gravity is a standard second-order phase transition at the critical point, and the microscopic details of those BHs are different from the Reissner–Nordström AdS BH in standard Einstein gravity.

Keywords: phase transition grade, microstructure, massive gravity

(Some figures may appear in colour only in the online journal)

1. Introduction

Observation results of the gravitational wave of Laser-Interferometer Gravitational Wave-Observatory (LIGO) collaboration conform to the predictions of general relativity (GR) [1].

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