

Quantum Gravity Spring 2015

Problem Set 5

Due: Tuesday, April 14.

Reading: Read the lecture notes you haven't read yet. Also read sections 4.1 - 4.7 in Kiritsis *String Theory in a Nutshell*.

1. Lecture note 16, exercise "Hawking-Page in three dimensions" (this exercise was added after the original note was posted, so you might need to download the latest version of note 16).
2. Kiritsis problem 4.3.
3. Kiritsis problem 4.4.
4. Kiritsis problem 4.5.
5. Kiritsis problem 4.7.
6. Kiritsis problem 4.8.
7. Kiritsis problem 4.11.