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General Relativity and Quantum Cosmology

The entropy and mean separation between energy levels of black hole

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According to the widely accepted statistical interpretation of black hole entropy the mean separation between energy levels of black hole should be exponentially small. But this sharply disagrees with the value obtained from the quantization of black hole area. It is shown that the new statistical interpretation of black hole entropy proposed in my paper arXiv:0911.5635 gives the correct value.

Comments: 4 pages, no figures; arguments clarified and corrected; the mean

fluctuation of energy of a black hole "in a box" used; 3 references

added; conclusions unchanged

Subjects: General Relativity and Quantum Cosmology (gr-qc); High Energy

Physics - Theory (hep-th)

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