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UV Physics and Hawking radiation

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Although Hawking radiation was derived from an effective-theory calculation, many believe that it is robust, and insensitive to UV physics. We analyze Hawking radiation in more detail, paying attention to its time dependence, and find that it is in fact sensitive to UV physical effects. We conclude that the effective-theory prediction is not reliable. We will also comment on the applications of this analysis to other related problems.

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