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Can we avoid quantum explosions of black holes?

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The Hawking temperature for Schwarzschild black hole $T_H = 1/8\pi M$ is singular in the limit of vanishing mass $M \rightarrow 0$. However, the Schwarzschild metric itself is regular when the black hole mass M tends to zero, it is reduced to the Minkowski metric and there are no reasons to believe that the temperature becomes infinite.

We will discuss how to improve the situation and avoid this discrepancy.

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