Abstract: The Schwarzschild metric is a Ricci flat named after Karl Schwarzschild. This is a modal for Black hole in theory of General relativity. In 1982, Gross, Perry and Yaffe showed the instability of Schwarzschild metric. According to this observation, we believe that there is a ancient solution Ricci flow which can describe this instability. In this talk, I will prove the existence of this solution by using energy estimate for parabolic equations.

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