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Xinliang An* (xinliang.an@utoronto.ca), 40 St George Street, Room 6290, Toronto, Ontario M5S 2E4, Canada. *Signature for Decay Rates and Trapped Surface Formation.*

In this talk, we will prove trapped surface formation in the weak-field regime. A systematical approach with only signature for decay rates will be presented. (Received February 01, 2018)