

1126-53-122

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*Emergence of Apparent Horizon in Gravitational Collapse.*

In this talk, I will present a new result on gravitational collapse. With hyperbolic PDE techniques, 3+1 dimensional Einstein vacuum equations are solved in a spacetime region up to the “center”. Within this region, using elliptic PDEs an apparent horizon is constructed emerging from a point. (Received January 08, 2017)