

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

How does a black hole horizon start? DIETER BRILL, Center for Fundamental Physics, University of Maryland — When a black hole is created by gravitational collapse, there is a region of spacetime before the collapse where there is no horizon. Before the matter can fall through the horizon and create a black hole, the horizon has to start and expand to meet the matter. The starting point or points is where the generators enter the horizon. This set is a lower-dimensional, connected subset of a spacelike surface. By way of examples we will discuss the early configuration of the horizon to the time that matter enters.

Dieter Brill
Center for Fundamental Physics, University of Maryland

Date submitted: 30 Oct 2009

Electronic form version 1.4