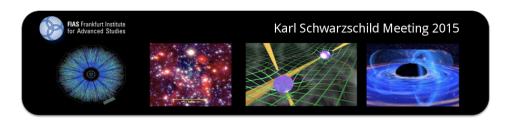
Karl Schwarzschild Meeting 2015



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Black holes sourced by a massless scalar

Tuesday, 21 July 2015 17:00 (30 minutes)

We construct asymptotically flat black hole solutions of Einstein-scalar gravity sourced by a nontrivial scalar field with 1/r asymptotic behavior. Near the singularity the black hole behaves as the Janis-Newmann-Winicour-Wyman solution. The hairy black hole

solutions allow for consistent thermodynamical description. At large mass they have the same thermodynamical behavior of the Schwarzschild black hole, whereas for small masses they differ substantially from the latter.

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Track Classification: Seniors