

APR12-2011-000070

Abstract for an Invited Paper
for the APR12 Meeting of
the American Physical Society

Intermediate-mass black holes: A theoretical perspective

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A number of channels have been proposed for forming intermediate-mass black holes (IMBHs) with masses between ~ 100 and $\sim 10,000$ solar masses. We review the most promising formation channels and point out some remaining difficulties. We discuss the dynamical role IMBHs are likely to play in globular clusters, and conclude with some possibilities for future IMBH exploration, in particular with gravitational waves.