

BLACK HOLES IN DENSE STAR CLUSTERS
Aspen Center for Physics
2015 Aspen Winter Conference January 17–22, 2015

POSTER TITLE: Steady State Relativistic Stellar Dynamics around a Massive Black Hole

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We present an analytic approach to modelling the loss cone problem with Monte-Carlo solutions of the Fokker-Planck Equation in (E, J) , taking into account 2-body relaxation, resonant relaxation with coherent background noise, secular Newtonian and GR precessions, and gravitational waves dissipation. We apply it to calculate the steady state phase-space density and loss-rates in galactic nuclei.