

dense star clusters binary black holes gravitational waves - dense star clusters binary black holes gravitational waves rainer spurzem with silk road team national astronomical observatories (naoc), key lab computational astrophysics, chinese academy of sciences astronomisches rechen-inst., zah, univ. of heidelberg, germany kavli institute for astronomy and astrophysics (kiaa), peking university **initial populations of black holes in star clusters** - initial populations of black holes in star clusters krzysztof belczynski,1,2 aleksander sadowski,3 frederic a. rasio,4 and tomasz bulik5 received 2005 july 29 ... **massive black holes in star clusters. i. equal-mass clusters** - black holes in star clusters will feed mainly on stars tightly bound to them and the re-population of these stars causes the clusters to expand, reversing core-collapse without the need for dynamically active binaries. close encounters of stars in the central cusp also lead to an **nuclear star clusters and black holes** - nuclear star clusters and black holes anil seth (10 min) harvard-smithsonian center for astrophysics nadine neumayer (10 min) european southern observatory collaborators: michele cappellari (oxford), nelson caldwell (harvard-smithsonian cfa), aaron barth (uc irvine), jakob walcher (estec), torsten bÄfÄ¶ker (estec), **formation of intermediate-mass black holes through runaway ...** - formation of intermediate-mass black holes through runaway collisions in the first star clusters yuya sakurai 1?, naoki yoshida;2, michiko s. fujii3, shingo hirano4 1department of physics, graduate school of science, the university of tokyo, 7-3-1 hongo, bunkyo-ku, tokyo 113-0033, japan **massive black holes in star clusters. i. equal-mass clusters** - massive black holes in star clusters. i. equal-mass clusters holger baumgardt,1 junichiro makino,2 and toshikazu ebisuzaki1 received 2004 march 15; accepted 2004 june 4 abstract in this paper we report results of collisional n-body simulations of the dynamical evolution of equal-mass star **intermediate-mass black holes in binary-rich star clusters** - intermediate-mass black holes in binary-rich star clusters ladislav substr 1?, giacomo fragione2 and jörg dabringhausen 1astronomical institute, charles university, v holesovickach 2, cz-180 00 praha 8, czech republic 2racah institute for physics, the hebrew university, jerusalem 91904, israel 18 january 2019 abstract **black holes in massive star clusters - citemerx** - black holes in massive star clusters 3 such a density is much higher than the mean density of any known star cluster, young or old. for comparison, the average density of the arches cluster is $\sim 10^5 \text{ m}^3/\text{pc}^3$, that of a fairly compact globular cluster is $\sim 10^4 \text{ m}^3/\text{pc}^3$, while even **mergers of stellar-mass black holes in nuclear star clusters** - mergers of stellar-mass black holes in nuclear star clusters m. coleman miller and vanessa m. lauburg department of astronomy and maryland astronomy center for theory and computation, university of maryland, college park, md 20742-2421, usa **binary mergers and growth of black holes in dense star ...** - binary mergers and growth of black holes in dense star clusters ryan m. o'leary, frederic a. rasio, john m. fregeau, natalia ivanova, and richard o'leary department of physics and astronomy, northwestern university, 2132 tech drive, evanston, il 60208; o'leary@alumnorthwestern, **an arena for multi-messenger astrophysics: inspiral and ...** - of white dwarfs by intermediate-mass black holes with masses \sim intermediate mass black holes - physics & astronomy - dynamical friction will cause globular star clusters to sink inward toward the center of their host galaxies. eventually, they will be disrupted by the chaotic environment characteristic of a galaxy's core regions and dissipate, depositing in the process any intermediate mass black holes that may have formed within them (ebisuzaki et. al. 2001). formation and evolution of black holes in galactic nuclei ... - formation and evolution of black holes in galactic nuclei and star clusters rainer spurzem1, peter berczik1, ingo berentzen1, david merritt2, miguel preto1, pau-amaro seoane3, andrea borch1 ... dynamics of star clusters near nuclear black holes - dynamics of star clusters near nuclear black holes john m. fregeau northwestern university may 16, 2006 ... outline dynamics of young star clusters in the vicinity of nuclear black holes (with the galactic center as a specific example), including imbh formation ... dynamics of star clusters near nuclear black holes john m. fregeau. physicists find black holes in globular star clusters ... - physicists find black holes in globular star clusters, upsetting 40 years of theory 4 november 2013, by john davis the black hole above was discovered in the m62 star

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