

George Fuller: Supermassive Stars and Black Hole Seeds: A narrow mass range with triple trouble; Dark Sector production of supermassive black hole seeds

Tuesday, 3 December 2019 13:50 (45 minutes)

I discuss two topics: (1) A narrow range of masses for primordial metallicity supermassive stars exhibit a coincidence of three factors that may or may not set them up for explosion after the general relativistic instability initiates their collapse; and (2) Late vacuum phase transitions and a variety of other dark sector beyond-standard-model physics may generate fluctuations which give rise to black holes