

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

TITLE: Formation Processes for IMBHs

SPEAKER: Melvyn Davies (Lund University, Sweden)

I review various formation processes for intermediate-mass black holes (IMBHs). I consider channels involving collisions or mergers between star or stellar-mass black holes within stellar clusters. Accretion onto stars and black holes within GMCs and AGN accretion discs are reviewed. I discuss the role of gas inflow into stellar clusters and galactic nuclei.