A HUS WI Megellanic origin

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Abstract:

- HU3 Nighly likely from contex of LMC
 Closest approach ~ 21.1+6.1 Myr, v = 870-60
 L> only consistent w/ Hills mechan
- MBH 4e3 104 MO

Introduction:

- HUS is stor whose v is quick eagh to escape MW g.
- First HUS (HUSI) was find by Brown et al. 2005. 4 13 107 ± 15 Kyc from Son
- HV33 is 846 B ster 41 do = 61 Kpc
- B Stors Short lives : So extreme v is needed to reach position a holos
- HV3 is too your to orginte from MW
- Perets (2009) Suggested that discreping between thinks
 from galactic Centra of the lifetime May be resolved
 by assumed to ejected as brong of later merged as Companion due to internet processes.

 However eject of HW bons the up on likely

 (Fegi-re & Givelandes 2018)
- SN of Company Con also Cause

Proper meters = (1.91, 0.229) 2, mary -1 ato the Copy of the state of ds = 49.97 ± 1.126 49C (Pietrzykski et 91205) Vad = 262±0-3 Kn5" (vander Me 2002) H=1.5 ell Mo alabolare (Hoster, Massille 2013) 2.1 Hethod: ELMC (Behrous, , weekster, com -Use g field of HW MWPHerici 2014 - McHiller | SMC bound to LMC Buy (2015) 1-durants surrounding LMC has NFW D.M helo

(1974)

a Hiyamor-My: disk 1-Hernquist protoc w/ Rede = 17.14 kpc 1 -> model good ul pt } pour law belye -Sur V office => (UG, VG, WG) = (-11. [, 24, 7.3) Boug et al. (2012) Movel | Kalling - Sur at 8.3 = 0.1 kpc Outr MW - Dynamical fre between LMC { MW or Hashinsto, ! Makno (2003) -) back 500 Hyr>> MS 1: letine Hortecolo semplo of the 60 phase space Cords or dist, proprimation, Ved LyHVS3, Sun & LMC HVS3: - Fig 2 show location HVS3 passed MW & LMC - Portoge's Zent (2007)
- Reflex Motor of Mill Con offet trajecty -> who have as a patient sine. No diff - Guelardris , Porteges , Sipar (2005) Show the Mex Vey of by ul SN 13 & 100 km 5-1 even ul Mapel Kicks Hill (1988) -> 45 ~ 640km (ab) -1/2 (m, mz) 1/3 × (MBM V6

- Candonack Samples on LMC- & Compre 41. 26 Stems
L> ppr shud oths 'Coul' origine & Line
L> sim griph to fig 4.