Chemical evolution of the Galactic halo with neutron star mergers based on the sub-halo clustering scenario Yuhri Ishimaru International Christian University Takuya Ojima (ICU), Shinya Wanajo (Sophia (1), Nikos Prantzos (IAP)































Mean

Num. of

NSMs /SH

0.174

Stochastic Chemical Evolution of sub-halos with NSMs Ojima, Ishimaru, Wanajo, & Prantzos in prep.					
Based on such scenario, we examine enrichment of each sub-halo by NSMs, using Monte-Carlo method. According to the sub-halo mass function; dN/dM. ∝ M. ^{-1.7} , total number of model sub-halos which form the Galactic halo are given as follows:					
Stellar Mass [M _⊚]	10 ⁴ 10 ⁵	10 ⁵ 10 ⁶	10 ⁶ 10 ⁷	10 ⁷ -10 ⁸	10 ⁸ −2x10 ⁸
Num. of sub-halos	741	147	29	6	1

1.75

19.1

184

694











