

We perform population synthesis simulations for Population III (Pop III) coalescing compact binary which merges within the age of the Universe. We found that the typical mass of Pop III binary black holes (BH–BHs) is  $\sim 30 M_{\odot}$  so that the inspiral chirp signal of gravitational waves can be detected up to  $z = 0.28$  by KAGRA, Adv. LIGO, Adv. Virgo and GEO