Implications of massive Population III binary systems for the ionizing photons and black hole binary mergers

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- Fully resolved calculation on the Population III binary systems with various masses & initial separations using MESA
- The contribution of binary stars for the production of ionizing photons is not important compared to single stars
- Massive binary black hole systems (> 20 $M_\odot$) as gravitational wave radiation sources can be produced from Pop III stars via stable mass transfer

Welcome any questions and feedbacks!