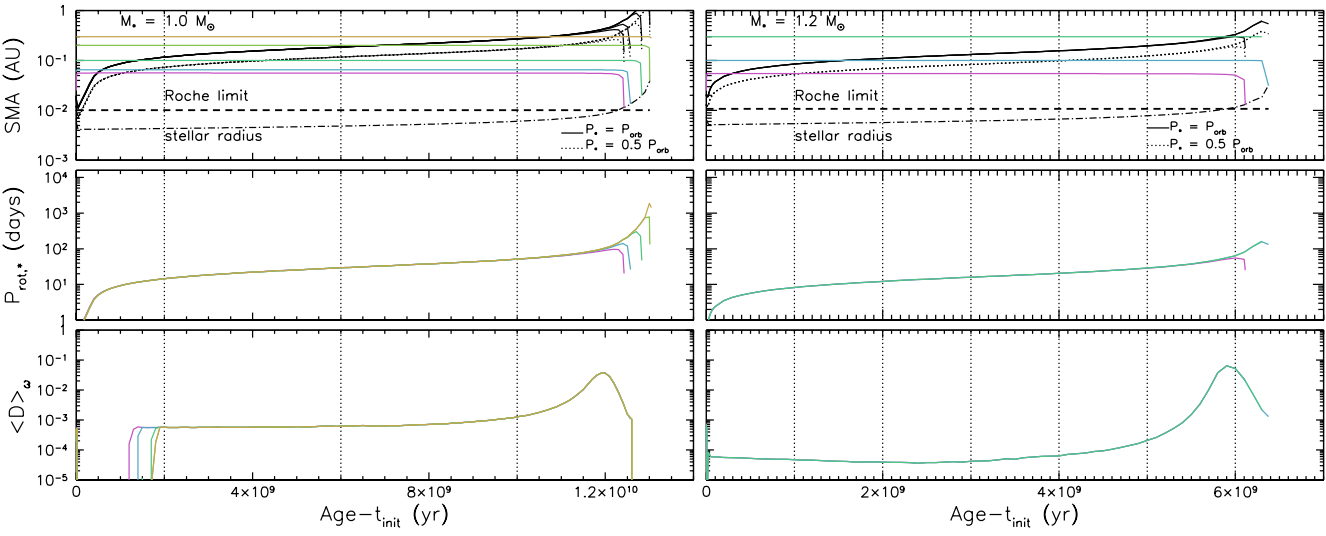

(a) 1.0 $M_\odot$ (b) 1.2 $M_\odot$