$\Delta a_0 = 0.0008$ \times \times \times \times \times \times \times \times \times \times \times 10^{-8} X X X \times \times 697 X X mass 582 X 467 10^{-9} X \times \times \times \times \times \times \times \times \times \times \times X X \times \times \times \times \times \times \times \times \times \times \star \times \times \times \times \times \times \times 10^{-10} 10^{-12} 10^{-10} 10^{-11} viscosity v_s