$\Delta a_0 = 0.0005$ X \times \times \times X \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times \times 10^{-8} X \times \times 696 mass 581 466 X 351 236 X X X X X \times \times \times X 10^{-10} 10^{-12} 10^{-11} 10^{-10} viscosity v_s