

$$\Delta a_0 = 0.0008$$

ring mass m_r

10^{-8}
 10^{-9}
 10^{-10}
 10^{-11}

10^{-13}

10^{-12}

10^{-11}

10^{-10}

viscosity ν_s

- \times crossed streamlines
- \blacksquare $\Delta q < 6 \times 10^{-4}$
- \blacksquare $6 \times 10^{-4} < \Delta q < 4 \times 10^{-3}$
- \blacksquare $\Delta q > 4 \times 10^{-3}$
- \blacklozenge partially confined