
Supplementary information

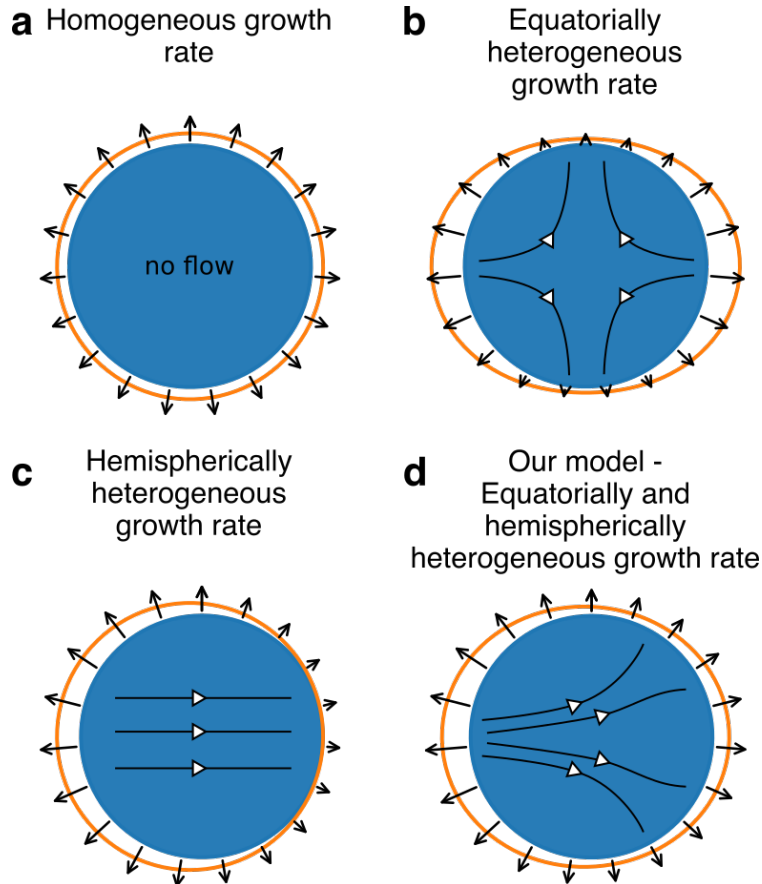
**Dynamic history of the inner core
constrained by seismic anisotropy**

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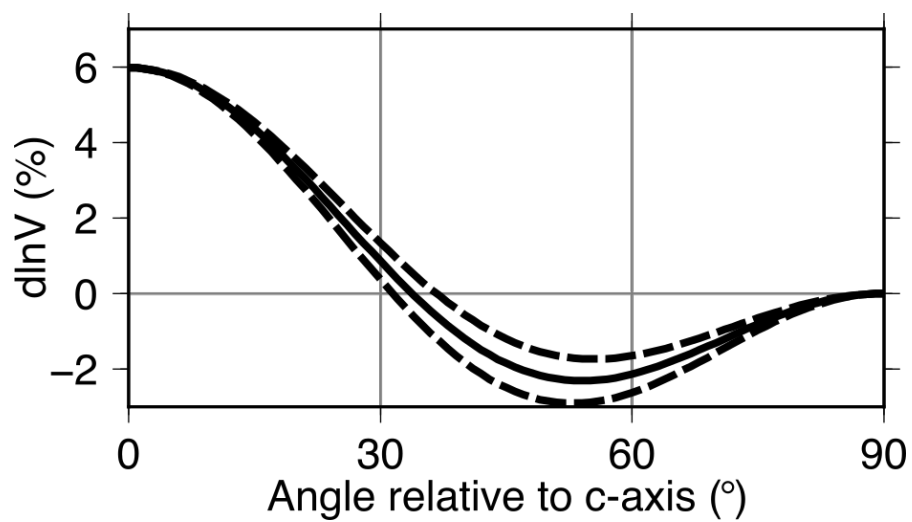
Title: Dynamic history of the inner core constrained by seismic anisotropy

Authors: Daniel A. Frost^{1*}, Marine Lasbleis²³, Brian Chandler¹, Barbara Romanowicz¹⁴⁵

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Supplementary Information Figure 1: Conceptual models of inner core growth scenarios. Boundary conditions (black arrows), resultant growth patterns (white arrows), and expected topography (orange line, exaggerated for visualisation) for inner core models with (a) homogeneous growth rate, (b) equatorial heterogeneous growth rate¹¹, (c) hemispherical heterogeneous growth rate^{15,16}, and (d) equatorial and hemispherical heterogeneous growth rate, combining models b and c.



Supplementary Information Figure 2: Single crystal anisotropy of hcp $\text{Fe}_{93.75}\text{Ni}_{6.25}$ alloy at 5500 K and 360 GPa²⁰ with error range.