

**ROSSBY WAVES IN SOLAR INTERIOR AND
FORMATION OF LARGE-SCALE
NON-AXISYMMETRIC CONVECTIVE STRUCTURES**

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Generation of stellar and solar magnetic fields is effected by large-scale non-axisymmetric flows such as Rossby waves. Numerical simulations of such flows can provide information for application of helioseismic methods for their identification. We present numerical simulations which show the evolution of Rossby waves and their interaction with convection. The result of this interaction is large-scale convective patterns, that can be the sources of such phenomena as active longitudes and complexes of activity.