



Long-term dynamics of solar cycle, geomagnetic reversals and fluctuations of dynamo governing parameters

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As a matter of fact, cyclic behaviour of solar activity demonstrates a dynamics on the timescales which are much longer than the cycle period. From the other hand, magnetostratigraphic timescale shows a complicated long-term evolution of geomagnetic field on the timescales which are much longer than the presumed geodynamo timescale. A model which relates such phenomena with random variations of alpha-effect (or other governing mean-field dynamo parameters) is suggested.