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# Large Scale Magnetic Fields Universe Springer

**generation of large-scale magnetic fields in single-field ...** - generation of large-scale magnetic fields in single-field inflation 2 1. introduction magnetic fields are present on various scales in the universe from planets, stars, galaxies, to clusters of galaxies, see e.g., refs. [1, 2, 3] for reviews. in galaxies of all types, **magnetic helicity and large scale magnetic fields: a primer** - magnetic helicity and large scale magnetic fields: a primer fig. 3 picture of a "twisted horseshoe roll" element of a roller coaster at cedar point in sandusky, ohio, usa. the large scale loops are "writhe" as defined in the text and the rotation of the tracks along the direction of the coaster path is "twist". the loop on the left has **large scale magnetic fields: density power spectrum in ...** - large scale magnetic fields: density power spectrum in redshift space 53 (perlmutter et al. 1999; riess et al. 1998). for numerical work we use bh2 d 0:02 (tytler et al. 2000) and h d 0:7 ... **the effects of large-scale magnetic fields on disk ...** - the effects of large-scale magnetic fields on disk formation and evolution arieh k onigl1 and raquel salmeron2 1 department of astronomy & astrophysics, the university of chicago, chicago il 60637, usa akonigl@uchicago 2 research school of astronomy & astrophysics and research school of earth sciences, the australian national university, canberra act 0200, australia **solar large-scale positive polarity magnetic fields and ...** - solar large-scale positive polarity magnetic fields and geomagnetic disturbances v. bumba unlike the negative polarity solar magnetic field large-scale regular features that correlate with enhanced solar activity regions, the positive polarity regular formations formed in the weak and old background magnetic fields seem to correlate well with ... **turbulent magnetic helicity transport and the rapid growth ...** - turbulence, the large and small scale fields are comparable, and similar to the rms turbulent velocity. there is no distinction between using small and large scale fields to drive the magnetic helicity flux. we can recover a reasonable model for the dynamo if we consider the tendency of the eddies to flatten in the absence of vertical structure. **explaining the coexistence of large-scale and small-scale ...** - explaining the coexistence of large-scale and small-scale magnetic fields in fully convective stars rakesh k. yadav1,2, ulrich r. christensen2, julien morin3, thomas gastine2, ansgar reiners4, katja poppenhaeger1, and scott j. wolk1 1 harvard-smithsonian center for astrophysics, 60 garden street, cambridge, ma 02138, usa; rakesh.yadav@cfa ... **generation of magnetic fields by large-scale vortices in ...** - generation of magnetic fields by large-scale vortices in rotating convection c eline guervilly, david hughes & chris jones ... large-scale vortices in non-magnetic rotating convection first observed with compressible uid (chan 2007, kapyla et al. 2011) ... generation of magnetic fields by large-scale vortices in rotating convection ... **large-scale magnetic field inversions at sector boundaries** - large-scale magnetic field inversions at sector boundaries n. u. crooker center for space physics, boston university, boston, massachusetts, usa s. w. kahler ... intervals of mismatch imply the presence of magnetic fields that are locally inverted **large-scale electron acceleration by parallel electric ...** - • description of magnetic reconnection • spacecraft observations from the earth's magnetotail • kinetic model for the electrons • fixing the fluid equations (the equations of state) • large scale electron acceleration • a new experiment is needed • conclusions outline

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