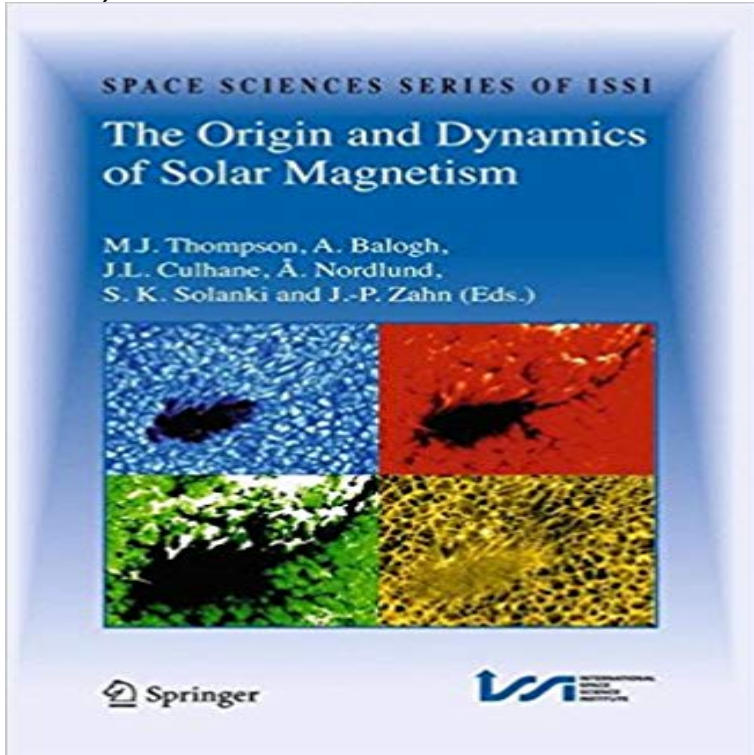


# The Origin and Dynamics of Solar Magnetism (Space Sciences Series of ISSI)



Starting in 1995 numerical modeling of the Earth's dynamo has flourished with remarkable success. Direct numerical simulation of convection-driven MHD flow in a rotating spherical shell show magnetic fields that resemble the geomagnetic field in many respects: they are dominated by the axial dipole of approximately the right strength, they show spatial power spectra similar to that of Earth, and the magnetic field morphology and the temporal variation of the field resembles that of the geomagnetic field (Christensen and Wicht 2007). Some models show stochastic dipole reversals whose details agree with what has been inferred from paleomagnetic data (Glatzmaier and Roberts 1995; Kutzner and Christensen 2002; Wicht 2005). While these models represent direct numerical simulations of the fundamental MHD equations without parameterized induction effects, they do not match actual planetary conditions in a number of respects. Specifically, they rotate too slowly, are much less turbulent, and use a viscosity and thermal diffusivity that is far too large in comparison to magnetic diffusivity. Because of these discrepancies, the success of geodynamo models may seem surprising. In order to better understand the extent to which the models are applicable to planetary dynamos, scaling laws that relate basic properties of the dynamo to the fundamental control parameters play an important role. In recent years first attempts have been made to derive such scaling laws from a set of numerical simulations that span the accessible parameter space (Christensen and Tilgner 2004; Christensen and Aubert 2006).

Welcome to the blog of Joan le Grande. I'm changing the blog to english so forgive me the dutch articles before. I already translated a few, keeping it up! Anyway, stay tuned for lifestyle articles and reviews about games or other nerdy stuff. Enjoy! Categories Comics Games Playstation 4 Wii U Lifestyle Posted by Joan le Grande in Games, Playstation 4 Leave a comment Tagsexperience, first look, Games, Playstation 4, Playstation VR review, ps4 VR review, virtual reality YES YES YES. I'm super hyped about the VR, but you obviously knew that already because of my last blogpost. There were a few hiccups because I ordered it online and I was working during the time it came. I stressed, freaked, jumped

and finally gave up on the thought I got to play on the day it came out. But luck was on my side and when I got home, 20 minutes later the VR glasses arrived! In this post I will take you with me on my first experience with virtual reality. Was it as awesome as I hoped? Or is nauseating and not really my cup of tea? Read and find out!

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