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Cosmological magnetic fields

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Magnetic fields found in different structures in the Universe, including galaxies and galaxy clusters, are the results of amplification of much weaker magnetic fields which existed before or were generated simultaneously with the process of structure formation. Uncertainty of the origin of the initial weakest magnetic fields at the origin of the amplification process constitutes one of the long-standing problems of astronomy / cosmology. I will review efforts toward resolution of this problem, with an emphasis on the possibilities of observational testing of different cosmological magnetogenesis models.

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