

Cosmic Magnetism in Voids and Filaments



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The Role of Viscosity in Cosmic Magnetic Fields

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The impact of viscosity on the Intracluster Medium (ICM) is still under debate and it can be essential in mixing and turbulence processes and, therefore, the interaction of galaxies within galaxy clusters and the evolution of galaxies. For this reason, a deep study on the effect that viscosity has in the evolution of Galaxy Clusters from a numerical simulation point of view can give us a hint of gas properties and the dynamics going on in the ICM. The effect of viscosity is to suppress turbulence at small scales, producing a decrease of the dynamo effect, which leads to weaker magnetic fields in Galaxy Clusters.

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