

Well-posedness and attractors of the multi-dimensional hyperviscous magnetohydrodynamics equations

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Abstract

The multi-dimensional hyperviscous magnetohydrodynamics equation is considered in this paper. The well-posedness of the multi-dimensional hyperviscous magnetohydrodynamics equation is proved. Global attractor of the multi-dimensional hyperviscous magnetohydrodynamics equations is proved in $H^{1/2+n/4} \times H^{1/2+n/4}$ and $H^{1+n/2} \times H^{1+n/2}$.

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