

## عنوان مقاله:

Effect of magnetic field direction on MHD turbulent channel flow at low magnetic Reynolds number

## محل انتشار:

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## خلاصه مقاله:

Direct numerical simulations (DNSs) of magnetohydrodynamic (MHD) turbulent channel flow at  $Re_\tau = 180$  are performed using a pseudo-spectral Navier—Stokes solver. Simulations are performed in the limit of low magnetic Reynolds number. Three cases are considered, where the magnetic field vector is directed in x, y and z directions. The significance of the magnetic field direction on the mean flow statistics are presented in comparison with the DNS data of a plane turbulent channel flow.

## کلمات کلیدی:

direct numerical simulation, magnetohydrodynamic flow, turbulent channel

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/980981>

