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**Yuan Pei\*** (ypei4@unl.edu), 1129 S 16TH ST, Lincoln, NE 68502. *Global well-posedness for the two-dimensional anisotropic MHD-Bénard system.* Preliminary report.

MHD-Bénard system has gained significant interests in recent years. We herein study the equations in two-dimensional space, with horizontal dissipation and vertical magnetic diffusion, and without thermal diffusivity. We improve the results by Du, etc, in terms of less dissipation and larger function space for the initial data, by using the techniques of Yudovich for Euler equations, as well as the space  $\sqrt{L}$  introduced by Danchin, etc. (Received January 30, 2016)