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**Kazuo Yamazaki\*** (kyamazak@ur.rochester.edu), 1017 Hylan Hall, Department of Mathematics, University of Rochester, Rochester, NY 14627. *Recent developments on the global regularity issue of the magnetohydrodynamics system.*

In this talk, I will discuss recent developments on two directions of research: global regularity of the two-dimensional magnetohydrodynamics (MHD) system with zero dissipation and full diffusion, global regularity of logarithmically supercritical MHD system with certain logarithmic powers that have seen improvements very recently. In particular, I will present a second proof of the global regularity of the two-dimensional MHD system with full diffusion and arbitrary weak dissipation using Besov space techniques. (Received June 19, 2017)