1163-35-427 **Mimi Dai*** (mdai@uic.edu). Blow-up of dyadic models of Hall MHD with intermittency parameter.

Dyadic models for the Hall magnetohydrodynamics with intermittency parameter are derived. For such models, existence of local strong solution is obtained; while global strong solution is obtained in the case of high intermittency dimension. Moreover, we show that positive solution with large initial data develops blow-up in finite time provided the intermittency dimension is lower than a threshold. (Received September 06, 2020)