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**Alexey Cheskidov** ([acheskid@uic.edu](mailto:acheskid@uic.edu)), University of Illinois at Chicago, MSCS (M/C 249), 851 South Morgan Street, Chicago, IL 60607, and **Karen Zaya\*** ([kzaya2@uic.edu](mailto:kzaya2@uic.edu)), University of Illinois at Chicago, MSCS (M/C 249), 851 South Morgan Street, Chicago, IL 60607. *Regularizing Effect of the Forward Energy Cascade in the Inviscid Dyadic Model.*

We study the inviscid dyadic model of the Euler equations and prove some regularizing properties of the nonlinear term that occur due to forward energy cascade. This leads to several regularity results the inviscid case. We conjecture that every blow up has Onsager's scaling and discuss recent progress toward achieving this goal. (Received September 12, 2013)