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Peng Zhao* (peng.2.zhao@uconn.edu), Department of Mathematics, University of Connecticut, 341 Mansfield Road U1009, Storrs, CT 06269. *A Large Sieve Type Inequality and Its Applications on Waring-Goldbach Problem.* Preliminary report.

In this report, we present a large sieve type of inequalities under the mean value conjecture of Riemann-zeta function. Combined with the circle method, we obtain an upper bound for the exceptional set on Waring-Goldbach Problem. (Received September 25, 2017)