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Gregory Margulis* (margulis@math.yale.edu), Yale University, Department of mathematics,
P.O. Box 208283, New Haven, CT. *Homogeneous dynamics and number theory III.*

A sketch of the proof of the Oppenheim conjecture will be given. Other topics to be mentioned include: (1) different approaches to the quantitative Oppenheim conjecture; (2) effective equidistribution; (3) homogeneous dynamics and geometry of numbers. (Received September 14, 2008)