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Tue N Ly* (1ntue@brandeis.edu), Brandeis University, 415 South Street, Goldsmith 111,
Waltham, MA 02454. *Winning and losing parameters of Schmidt's (α, β) -game.*

After more than 40 years since it was first invented by W. Schmidt, his (α, β) -game and its variations have been shown to be a powerful yet convenient tool to prove abundance in diophantine approximation and dynamical systems. However, there are very little studies on the problem of completely determining winning and losing parameters for most of the sets. Our goal is to provide the first systematic approach toward this question, and apply it to some interesting sets. (Received February 11, 2013)