1025-03-215 **E. Todd Eisworth*** (eisworth@math.ohiou.edu), Department of Mathematics, Ohio University, Athens, OH 45701. *Club-guessing and combinatorial set theory.*

In the context of $\lambda = \mu^+$ for μ strong limit singular, we investigate a dichotomy concerning a certain club-guessing ideal. Letting I denote this ideal ($\mathrm{id}_p(\bar{C}, \bar{I})$ for a particular sort of $\bar{C}$ and $\bar{I}$), the dichotomy arises when we ask if λ can be partitioned into μ disjoint I-positive sets. If the answer is "yes", then there is a function $c : [\lambda]^2 \to \lambda$ with extremely strong "anti-Ramsey" properties. If the answer is "no", then there is an ideal J on λ satisfying saturation properties strong enough to imply that every stationary subset of $\{\delta < \lambda : \mathrm{cf}(\delta) \neq \mathrm{cf}(\mu)\}$ reflects. Open questions will be discussed as time permits. (Received January 23, 2007)