1113-05-90   **Art M. Duval**, **Bennet Goeckner**, **Caroline J. Klivans** and **Jeremy L. Martin***
(`jlmartin@ku.edu`). *A non-partitionable Cohen-Macaulay simplicial complex.*

A long-standing conjecture of Stanley states that every Cohen-Macaulay simplicial complex is partitionable. We disprove the conjecture by constructing an explicit counterexample. Due to a result of Herzog, Jahan and Yassemi, our construction also disproves the conjecture that the Stanley depth of a monomial ideal is always at least its depth. (Received August 13, 2015)