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Audrey N. Moore* (amoore@desu.edu), 30133 Armory Road, Dagsboro, DE 19939. *The problem of a nilpotent linear operator with two invariant subspaces*. Preliminary report.

In this talk we will investigate the problem of a nilpotent linear operator with two invariant subspaces. In particular, nilpotency index four yields a border line case which is tame infinite, between smaller nilpotency indices which give rise to finite categories and larger indices which give rise to wild categories. This talk will focus on aspects of the tame infinite category obtained in this set up. (Received September 15, 2009)