1027-47-203 **Claus Michael Ringel** and **Markus Schmidmeier*** (markus@math.fau.edu). *Endostructure and Stackability of Nilpotent Linear Operators.*

We consider triples $X = (V, U, T)$ consisting of a finite dimensional vector space V, a nilpotent linear operator $T : V \to V$ of nilpotency index at most six and a subspace U of V which is invariant under the action of T.

Call an indecomposable triple X m-stackable if there is a chain of inflations between triples

$$0 = Y_0 \to Y_1 \to \cdots \to Y_m = Y$$

with Y indecomposable and all subsequent factors isomorphic to X.

Surprisingly, an innocent invariant of the indecomposable triple X, namely the dimension pair (v, u) where $v = \dim V$, $u = \dim U$, allows precise statements about endostructure and stackability of X. In particular, if (v, u) is an integer multiple of $(12, 6)$ then X is m-stackable for every natural number m. But if (v, u) is not a multiple of $(2, 1)$ and X is m-stackable then $m \leq 6$. (Received February 26, 2007)