

On commuting nilpotent matrices

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For a nilpotent matrix B , we discuss the set $\mathcal{P}(\mathcal{N}_B)$ of all Jordan canonical forms of matrices in the nilpotent commutator of matrix B .

We give an overview of some recent results and for certain special cases of B , we give the complete lists of $\mathcal{P}(\mathcal{N}_B)$.