DEPENDENT AUTOMORPHISMS IN PRIME RINGS

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ABSTRACT. For each $n \geq 4$ we construct a class of examples of a minimal $C$-dependent set of $n$ automorphisms of a prime ring $R$, where $C$ is the extended centroid of $R$. For $n = 4$ and $n = 5$ it is shown that the preceding examples are completely general, whereas for $n = 6$ an example is given which fails to enjoy any of the nice properties of the above example.