When are Ore extensions over nil rings Brown–McCoy radicals?

By WAGNER CORTES (Porto Alegre) and EDILSON SOARES MIRANDA (Goioere)

Abstract. In this paper, we consider the Ore extension $R[x; \sigma, d]$, where R is an associative ring, σ is an automorphism, and d a σ-derivation of R. We study when $R[x; \sigma, d]$ is Brown–McCoy radical.

WAGNER CORTES
INSTITUTO DE MATEMÁTICA
E ESTATÍSTICA
UNIVERSIDADE FEDERAL DO
RIO GRANDE DO SUL
91509-900, PORTO ALEGRE, RS
BRAZIL

EDILSON SOARES MIRANDA
DEPARTAMENTO DE CIÊNCIAS
CENTRO DE CIÊNCIAS EXATAS
UNIVERSIDADE ESTADUAL
DE MARINGÁ
CEP 87360-000, GOIOERE, PR
BRAZIL