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Title:	On prolongations of valuations via newton polygons and liftings of polynomials
Authors:	Khanduja, S.K. (/jspui/browse?type=author&value=Khanduja%2C+S.K.)
Keywords:	Valued fields Non-Archimedean valued fields
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Citation:	Journal of Pure and Applied Algebra, 216 (12), 2648-2656.
Abstract:	Let v be a real valuation of a field K with valuation ring Rv . Let $K(\theta)$ be a finite separable extension of K with θ integral over Rv and $F(x)$ be the minimal polynomial of θ over K . Using Newton polygons and residually transcendental prolongations of v to a simple transcendental extension $K(x)$ of K together with liftings with respect to such prolongations, we describe a method to determine all prolongations of v to $K(\theta)$ along with their residual degrees and ramification indices over v . We give an analogue of Ore's Theorem when the base field is an arbitrary rank-1 valued field which extends the main result of [Mathematika, 47 (2000), 173196].
Description:	Only IISERM authors are available in the record.
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