



# Library Indian Institute of Science Education and Research Mohali



**DSpace@IISERMohali (/jspui/)**  
**/ Publications of IISER Mohali (/jspui/handle/123456789/4)**  
**/ Research Articles (/jspui/handle/123456789/9)**

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/2944>

Title:	A generalization of a theorem of Ore
Authors:	Khanduja, S.K. (/jspui/browse?type=author&value=Khanduja%2C+S.K.)
Keywords:	Theorem of Ore Algebraic
Issue Date:	2014
Publisher:	Elsevier
Citation:	Journal of Pure and Applied Algebra, 218(7), pp.1206-1218.
Abstract:	Let $(K, v)$ be a discrete rank one valued field with valuation ring $R_v$ . Let $L/K$ be a finite extension such that the integral closure $S$ of $R_v$ in $L$ is a finitely generated $R_v$ -module. Under a certain condition of $v$ -regularity, we obtain some results regarding the explicit computation of $R_v$ -bases of $S$ , thereby generalizing similar results that had been obtained for algebraic number fields in El Fadil et al. (2012) [7]. The classical Theorem of Index of Ore is also extended to arbitrary discrete valued fields. We give a simple counter example to point out an error in the main result of Montes and Nart (1992) [12] related to the Theorem of Index and give an additional necessary and sufficient condition for this result to be valid.
Description:	Only IISERM authors are available in the record.
URI:	<a href="https://www.sciencedirect.com/science/article/pii/S0022404913002181?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0022404913002181?via%3Dihub</a> ( <a href="https://www.sciencedirect.com/science/article/pii/S0022404913002181?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0022404913002181?via%3Dihub</a> ) <a href="http://hdl.handle.net/123456789/2944">http://hdl.handle.net/123456789/2944</a> ( <a href="http://hdl.handle.net/123456789/2944">http://hdl.handle.net/123456789/2944</a> )
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

## Files in This Item:

File	Description	Size	Format
need to add pdf....odt (/jspui/bitstream/123456789/2944/1/need%20to%20add%20pdf....odt)		8.12 kB	OpenDocument Text

[View/Open \(/jspui/bitstream/123456789/2944/1/need%20to%20add%20pdf....odt\)](#)

[Show full item record \(/jspui/handle/123456789/2944?mode=full\)](#)

[Statistics \(/jspui/handle/123456789/2944/statistics\)](#)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.