Title:	Minimal pairs, inertia degrees, ramification degrees and implicit constant fields
Authors:	Dutta, Arpan (/jspui/browse?type=author&value=Dutta%2C+Arpan)
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Abstract:	An extension (K(X)|K,v) of valued fields is said to be valuation transcendental if we have equality in the Abhyankar inequality. Minimal pairs of definition are fundamental objects in the investigation of valuation transcendental extensions. In this article, we associate a uniquely determined positive integer with a valuation transcendental extension. This integer is defined via a chosen minimal pair of definition, but it is later shown to be independent of the choice. Further, we show that this integer encodes important information regarding the implicit constant field of the extension (K(X)|K,v).
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