DSpace@IISERMohali (/jspui/)
/ **Thesis & Dissertation (/jspui/handle/123456789/1)**
/ **Doctor of Philosophy (PhD) (/jspui/handle/123456789/268)**
/ **PhD-2008 (/jspui/handle/123456789/1096)**

Please use this identifier to cite or link to this item: `http://hdl.handle.net/123456789/468`

Title:	Perspectivity of Modules and Some Additive Decompositions of Elements in Rings
Authors:	Garg, Shelly (/jspui/browse?type=author&value=Garg%2C+Shelly)
Keywords:	Mathematics Rings Perspective Rings
Issue Date:	6-Jul-2015
Publisher:	IISER M
Abstract:	Cancellation properties and additive decompositions of elements in rings have been extensively studied since long. There are strong inter-relations between some cancellation properties and additive decompositions of elements in rings. A ring R is said to have the internal cancellation property if any isomorphic direct summands of RR have isomorphic direct complements. It was proved by Camillo and Khurana that a von Neumann regular ring R has the internal cancellation property if and only if its every element a can be written as $a = e + u$, where e is an idempotent and u is a unit, with $aR \setminus eR = 0$. Also it has been recently proved by Grover et al. that if a von Neumann regular ring has the internal cancellation property, then its every element can be written as a sum of two units if identity is a sum of two units. We de ne a ring R to be perspective if any two isomorphic direct summands of RR have a common direct complement. It is clear that perspectivity in rings is a stronger property than the internal cancellation property. It turns out that perspectivity in some rings leads to better results about additive decompositions of elements. The goal of this dissertation is to study perspective rings in detail and also some additive decompositions of elements in rings.
Appears in Collections:	PhD-2008 (/jspui/handle/123456789/1096)

Files in This Item:

File	Description	Size	Format

| PH-08018.pdf (/jspui/bitstream/123456789/468/1/PH-08018.pdf) | 370.31 kB | Adobe PDF | View/Open (/jspui/bitstream/123456789/468/1/PH-08 |

Show full item record (/jspui/handle/123456789/468?mode=full)

📊 (/jspui/handle/123456789/468/statistics)

Admin Tools

Edit...

Export Item

Export (migrate) Item

Export metadata