



**RELATION BETWEEN FILTRATION ON A RING AND A QUASI VALUATION OR VALUATION RING**

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**Abstract**

In this paper, we show that if  $R$  is a filtered ring, then we can define a quasi valuation ring. And there exists a valuation ring if  $R$  is some kind of filtered ring. Then, we prove some properties and relations between filtered ring and quasi valuation ring and valuation ring.

**Keywords and phrases:** quasi valuation ring, valuation ring, filtered ring, strongly filtered ring.