

عنوان مقاله:

(On Property (A) and the socle of the f-ring $\text{Frm}(\mathcal{P}(\mathbb{R}), L)$

محل انتشار:

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خلاصه مقاله:

For a frame L , consider the f-ring $\mathcal{F}_{\mathcal{P}}L = \text{Frm}(\mathcal{P}(\mathbb{R}), L)$. In this paper, first we show that each minimal ideal of $\mathcal{F}_{\mathcal{P}}L$ is a principal ideal generated by f_a , where a is an atom of L . Then we show that if L is an $\mathcal{F}_{\mathcal{P}}$ -completely regular frame, then the socle of $\mathcal{F}_{\mathcal{P}}L$ consists of those f for which $\text{coz}(f)$ is a join of finitely many atoms. Also it is shown that not only $\mathcal{F}_{\mathcal{P}}L$ has Property (A) but also if L has a finite number of atoms then the residue class ring $(\mathcal{F}_{\mathcal{P}}L / \text{Soc}(\mathcal{F}_{\mathcal{P}}L))$ has Property (A).

کلمات کلیدی:

(Minimal ideal, Socle, real-valued functions ring, ring with property (A)

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