

Notes concerning characterizations of quasi F -frames

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In this talk, we give several characterizations of quasi F -frames. To name a few, let RL denote the ring of real-valued continuous functions on a completely regular frame L . Then, L is quasi- F iff $\text{Ann}^2(\alpha) + \text{Ann}^2(\beta) = RL$ whenever $\alpha + \beta$ is not a zero-divisor. A commutative ring is said to be quasi-Bézout if every finitely generated ideal that contains a non-zero divisor is principal. We show that L is quasi- F iff RL is quasi-Bézout. Further, L is quasi- F iff βL is quasi- F , iff λL (its universal Lindelöfication) is quasi- F , iff νL (its Hewitt real compactification) is quasi- F .