The Arens multiplication in a unital f-ring

KARIM BOULABIAR

The Dedekind complete abelian ℓ -group of all order bounded group homomorphisms from an abelian ℓ -group G to the ℓ -group $\mathbb R$ of all real numbers is denoted by G. Let R be a unital f-ring and let R indicate the Dedekind complete abelian ℓ -group of all group homomorphisms from R to $\mathbb R$. In this talk, we show that R is a commutative unital f-ring with respect to the so-called Arens multiplication. This work is part of joint research with Jamel Jaber.