Abstract

In this talk we introduce the multiplication operator. Roughly speaking, it is defined as the pointwise multiplication by a real/alued measurable function. This type of operator has been object of study over the past several decades by many mathematibiatised to

characterize its properties when it acts over different tifon spaces (such as Lebesgue, Orlicz, Lorentz and Bergman spaces).

The development of the study and the techniques which have been used to obtain the main results will be presented.

Although the multiplication operator has a long history, we will discuss some very interesting new open problems.