Given complex numbers q and $\omega,$ the Hahn's operator $D_{q,\omega}$ is defined by

$$D_{q,\omega}f(x) := \frac{f(qx+\omega) - f(x)}{(q-1)x + \omega},$$

where f is a given function. For this operator, a large variety of properties, in different contexts, are well known. Recently, a general quantic operator D_{β} , defined by

$$D_{\beta}f(x) := rac{f(eta x) - f(x)}{eta x - x},$$

was introduced, generalizing the Hahn's operator.

The idea is to try to obtain similar results for this general operator.