

$$\left((X+Y)_{\alpha}, (X+Y)_{1-\alpha}\right) = (-3.072, 3.1)$$

Correlation: 0.25
 $X: (-1.933, 1.969)$
 $Y: (-1.958, 1.994)$

$$(X_{\alpha} + Y_{\alpha}, X_{1-\alpha} + Y_{1-\alpha}) = (-3.891, 3.9)$$

