

Short \mathbb{C}^k 's

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I will show that for domains which are Short \mathbb{C}^k their volume is infinite and the Bergman space defined on such domains is trivial. Moreover, I will introduce a definition of Loewner Short \mathbb{C}^k . It is known that those domains are biholomorphic to Runge domains. Using some certain Henon's maps and basin of attractions we will produce examples of Loewner Short \mathbb{C}^2 .