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Title:	On the Automorphism Group of Certain Short C-2's.
Authors:	Pal, Ratna (/jspui/browse?type=author&value=Pal%2C+Ratna)
Keywords:	Automorphism C2's
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Abstract:	For a Hénon map of the form $H(x, y) = (y, p(y) − ax)$, where p is a polynomial of degree at least two and $a = 0$, it is known that the sub-level sets of the Green's function $G^+ H$ associated with H are Short C2's. For a given $c > 0$, we study the holomorphic automorphism group of such a Short C2, namely $c = \{G^+ H < c\}$. The unbounded domain $c \subset C2$ is known to have smooth real analytic Levi-flat boundary. Despite the fact that c admits an exhaustion by biholomorphic images of the unit ball, it turns out that its automorphism group, $Aut(c)$, cannot be too large. On the other hand, examples are provided to show that these automorphism groups are non-trivial in general. We also obtain necessary and sufficient conditions for such a pair of Short C2's to be biholomorphic.
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