COMPACT COMPLEX THREEFOLDS OF CLASS L ASSOCIATED TO POLYNOMIAL AUTOMORPHISMS OF \mathbb{C}^3

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Abstract ____

We construct new families of non-Kähler compact complex threefolds belonging to Kato's Class L. The construction uses certain polynomial automorphisms of \mathbb{C}^3 . We also study basic properties of our manifolds.

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Key words. Polynomial automorphisms of \mathbb{C}^3 , Global spherical shell, Kato's Class L.