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The free commutative automorphic 2-generated loop of nilpotency class 3

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Abstract: A loop is automorphic if all its inner mappings are automorphisms. We construct the free commutative automorphic 2-generated loop of nilpotency class 3. It has dimension 8 over the integers.

Keywords: free commutative automorphic loop, automorphic loop, associator calculus

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