## Geoffrey Dixon

Toward ternary C

Comment.Math.Univ.Carolin. 51,2 (2010) 185 -191.

**Abstract:** In which the binary product algebra of complex numbers,  $\mathbf{C}$ , is generalized to a ternary product algebra,  $\mathbf{C}_3$ .

**Keywords:** ternary multiplication, divison algebras, Leech lattice, sums of powers, quark and lepton spinors

AMS Subject Classification: 08A99

## References

- Conway J.H., Sloane N.J.A., Sphere Packings, Lattices and Groups, second edition, Springer, New York, 1993.
- [2] Wilson R.A., Octonions and the Leech lattice, J. Algebra 322 (2009), no. 6, 2186-2190.
- [3] Cederwall M., Preitschopf C.R.,  $S^7$  and  $\widehat{S}^7$ , Comm. Math. Phys **167** (1995), 373–393.
- [4] Dixon G.M., Octonion XY-Product, hep-th 9503053.
- [5] Dixon G.M., Integral Octonions, Octonion Multiplication, and the Leech Lattice, http://www.7stones.com/Homepage/8Lattice.pdf.
- [6] Dixon G.M., Hyperalgebra, http://www.7stones.com/Homepage/24x24x24.pdf.
- [7] Dixon G.M., Division Algebras: Family Replication, J. Math. Phys. 45 (2004), 3878.