

# Remarks on Fibonomial Calculus

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As every one knows Fibonacci numbers (1202) [5, 1] form a sequence of integrals satisfying the recurrence formula:

$$F_{n+2} = F_{n+1} + F_n, \quad F_1 = F_2 = 1.$$

This sequence even today is the subject of continuing research, especially by the Fibonacci Association which publishes "The Fibonacci Quarterly". Fibonacci sequence has a lot of interesting properties [2, 1], for example: some divisibility properties and completeness with respect to  $\mathbf{N}$ .

This is an indicative presentation of some definitions and theorems of Fibonomial Calculus which is a special case of  $\psi$ -extended Rota's finite operator calculus [4].

## References

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- [4] A.K. Kwaśniewski: *Towards  $\psi$ -extension of Rota's Finite Operator Calculus* Rep. Math. Phys. **47**, 305(2001), p.305-342
- [5] <http://www-groups.dcs.st-and.ac.uk/history/Mathematicians/Fibonacci.html>