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## On the numerical solution of a cannibalism model

Starting from an age structured model for cannibalism ([1]) we obtain a set of two delay Volterra functional equations and we propose an adaptation of the trapezoidal rule for its resolution. The convergence is proved and numerical experiments showing the performances of the method are presented.

This is a joint work with E. Messina from Dep. of Math. and Appl., University of Naples - "Federico II", and A. Vecchio from IAC-CNR, Naples.

## References

- [1] M. Iannelli, Mathematical Theory of Age-Structured Population Dynamics, Applied Mathematics Monographs, Comitato per le scienze matematiche C.N.R., Giardini Editori, 1994