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References		
<ul> <li>Hide references Search References</li> <li>This list reflects references listed in the original paper as accuration 1. N. del Buono and C. Mastroserio, Explicit methods based J. Comput. Appl. Math., 140 (2002), pp. 231-243. MR 19</li> <li>2. M. Calvo, D. Hernández-Abreu, J. I. Montijano, and L. Rá Departamento Matemática Aplicada, Universidad Zarag</li> <li>3. G. J. Cooper, Stability of Runge-Kutta methods for trajected 4. J. R. Dormand and P. J. Prince, A family of embedded Run</li> <li>5. E. Hairer, C. Lubich, and G. Wanner, Geometric Numerica Springer-Verlag, Berlin, 2002. MR 1904823</li> </ul>	tely as possible with no attempt to correct errors. d on a class of four stage fourth order Runge-Kutta methods for preserving quadratic laws, 134411 indez, Explicit Runge-Kutta methods for the preservation of invariants, Technical report, goza, Zaragoza, Spain, 2004. ory problems, IMA J. Numer. Anal., 7 (1987), pp. 1–13. MR0967831 ge-Kutta formulae, J. Comp. Appl. Math., 6 (1980), pp. 19-26. MR0568599 al Integration: Structure Pre-serving Algorithms for Ordinary Differential Equations,	