

Introduction to Effective Order

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with contributions from Gulshad

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1. B-series and B-series coefficients
2. Compositions of B-series
3. Compositions of RK methods
4. Equivalence classes of RK methods
5. The RK group
6. Subgroups, cosets and quotient groups
7. Effective order
8. Methods of effective order 5 satisfying $C(2)$ and $D(1)$
9. Methods of effective order 5 satisfying only $D(1)$
10. Gulshad's preliminary results