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NEW ESTIMATIONS OF THE REMAINDER IN THREE–POINT QUADRATURE FORMULAE OF EULER TYPE

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Abstract. We derive some new bounds for the general three-point quadrature formulae of Euler type using some inequalities for the Chebyshev functional. As special cases, we provide some new error estimates for Euler Simpson formula, dual Euler Simpson formula and Euler Maclaurin formula. Also, applications for Euler Bullen-Simpson formula are obtained.

Mathematics subject classification (2010): 26D15, 26D20, 26D99.
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