

Reviewer's Comments:

I did the review for the modified paper titled, "A NEW CHEBYSHEV SPECTRAL{COLLOCATION METHOD FOR SOLVING A CLASS OF ONE-DIMENSIONAL LINEAR PARABOLIC PARTIAL INTEGRO - DIFFERENTIAL EQUATIONS",

I Checked the paper again where the author's effort is appreciated. **I accepted the paper after the modification done by the author**, for the hope that the author can provide better results in the near future.

Notes for the author,

** I would like to mention you that in most of my papers I started with N=4, which give a good error results. See these papers for example..((On error estimation of automatic quadrature scheme for the evaluation of Hadamard integral of second order singularity (the error started from 4 with excellent results e-14),

A Chebyshev polynomial based quadrature for Hypersingular Integrals (the error started from 6 with excellent results e-15) and so many other papers of mine which started from N=4))

** Chebyshev weight functions is more proper for our work than Jacobi's where we have a critical weight of 1 that do not suits our work. If you choose a good weight function you can work with singularities of higher level results.

Author's Feedback:

I'm very grateful for your comments which I will consider in future works that concerns the singularity problem. In fact, I already read your mentioned works and I'm preparing some works that uses the singularities of higher level results of these papers.

When I answered about singularity I answered from view of the term

$$\int_0^t \frac{k(x, t-s)}{(t-s)^\alpha} \quad \text{with} \quad 0 < \alpha < 1.$$

For my equation (parabolic partial IDE)

$$\partial_t u(x, t) - u_{xx}(x, t) + p(x)u_x(x, t) = \int_0^t k(x, t-s)u_{xx}(x, s) ds + f(x, t),$$

When comparing any used method for

$$\partial_t u(x, t) - u_{xx}(x, t) = \int_0^t k(x, t-s)u(x, s) ds + f(x, t),$$

no one gives a good results at N=4 or N=6, beside some methods reached to (N = 256) to produce good results. Also the term $u_x(x, t)$ increases the error.