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Piecewise Chebyshev approximation of experimental data. (Russian) Zbl 0624.65009
[Zh. Vychisl. Mat. Mat. Fiz. 26, No. 12, 1763-1772 \(1986\).](#)

Given a-priori fixed error, the problem of experimental data approximation using a piecewise polynomial (in some Chebyshev system) with free conjugation nodes is investigated. The properties of the approximation with minimal number of nodes are studied. A computational scheme for such optimal approximation and results of testing two different algorithms are presented.

Reviewer: [C.Simerská](#)

MSC:

[65D10](#) Numerical smoothing, curve fitting
[41A50](#) Best approximation, Chebyshev systems

Cited in **1** Review

Keywords:

[experimental data approximation](#); [piecewise polynomial](#); [Chebyshev system](#); [free conjugation nodes](#); [minimal number of nodes](#); [optimal approximation](#)