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Convergence results for collocation methods different from the Bible

Monday, 17 June 2019 12:00 (45 minutes)

The talk presents convergence results based on a nonlinear convergence theory for collocation methods, both for boundary value problems and initial value problems. For boundary value problems, the existence of so-called "ghost solutions" arises, which are non-consistent discrete solutions. For initial value problems, the special usefulness for stiff ODEs comes up naturally in terms of the condition numbers.

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