
Numerical exponential integrators for dynamical systems

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- Title:

Numerical exponential integrators for dynamical systems

- Researcher in charge:

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- Beneficiary:

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- Host institution:

Instituto de Matemática e Estatística at the Universidade de São Paulo

- Research team:

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- Number of the research project:

2021/06678-5

- Duration:

1 August 2021 to 31 July 2023

- Period covered by this research report:

1 August 2022 to 26 June 2023

- *1. Summary of the proposed project*
- *2. Summary of the activities*
- *3. Project execution*
- *Description and evaluation of institutional support received in the period*
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1. SUMMARY OF THE PROPOSED PROJECT

This is a scientific initiation project that proposes the deep study of some of the main methods of exponential integration for problems in dynamic systems, with emphasis on the paper []. Here, the undergraduate will study the construction, analysis, implementation and application of them and at the end, it is expected that she is familiar with modern techniques of numerical methods.

Keywords: exponential integrator, numerical methods, dynamical systems.

2. SUMMARY OF THE ACTIVITIES

To be done.

