

# CALCULATION OF NAMBU MECHANICS

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# CALCULATION OF NAMBU MECHANICS

Shuang-hu Wang

The State Key Laboratory of Computational Physics, Institute of Applied Physics and Computational Mathematics, Beijing 100088, China

**Abstract** In this paper, a fundamental fact that Nambu mechanics is source free was proved. Based on this property, and via the idea of prolongation, finite dimensional Nambu system was prolonged to difference jet bundle. Structure preserving numerical methods of Nambu equations were established. Numerical experiments were presented at last to demonstrate advantages of the structure preserving schemes.

**Key words** [Nambu equations](#) [Differential forms](#) [Difference schemes](#) [Structure preserving methods.](#)

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