

New Examples of Two-component NLS Equations

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The Manakov model [3] is the first example of a two-component Non-Linear Schrodinger (NLS) equation that finds numerous applications in physics. It is natural to look for other types of multi-component generalizations. There is a deep connection between multi-component NLS equations and symmetric spaces [2]. Starting from a symmetric space and then applying a properly chosen reduction [4] we arrive at new examples of two-component NLS equations. Some of those new examples can be found in our recent work [1].

References

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