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Non-relativistic strings from gauged WZW models

Non-relativistic strings have seen a renewed interest as they provide avenues for novel geometric insights, a deeper understanding of non-relativistic symmetries etc. We explicitly construct a class of non-relativistic strings by gauging WZw models on bargmannian Lie groups. Doing this for the Nappi-Witten model, we arrive at a non-relativistic string model that is remarkably similarity to the Gomis-Ooguri string. However, a key difference is that our model has different holomorphic and anti-holomorphic sectors, which we explore further.

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