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Construction of 4D Minkowski Yang-Mills solutions with non-compact cosets

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Yang-Mills theory is at the heart of theoretical physics, but even classical analytic solutions for its equations are in general very hard to be obtained. This makes algebraic and geometric methods to construct such solutions especially important in this context. In this seminar, we will briefly see how equivariant Ansatz and foliation of the Minkowski space via non-compact cosets can be used to construct a class of analytic Yang-Mills solutions, including "kink" solutions that show up as instantons in Euclidean gauge theory. The properties of those solutions are going to be discussed, and some explicit examples will be shown for illustration.

Summary

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Track Classification: Strings & Mathematical Physics