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A generalized 4d Chern-Simons theory

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We formally introduce a deformation of the 4d Chern-Simons theory, whose path integral takes the canonical symplectic form required by the non-Abelian localization method. The methodology is based on the Beasley-Witten construction applied to conventional 3d Chern-Simons theory. This opens the possibility for studying integrable field theories using geometric tools.

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