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Near-Integrability of Yang-Mills Theories

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Gauge theories with some or all of space-time discretized may be recast as coupled integrable 1+1-dimensional field theories, whose exact S-matrices and form factors are known. Information about the 1+1-dimensional system can be used to extract string tensions and mass spectra for weakly-coupled (but anisotropic) 2+1-dimensional gauge theories. For 3+1-dimensional gauge theories, weak-coupling assumptions no longer work as effectively, but a qualitative string-parton picture appears. I will discuss briefly how the methods may be extended, in principle, to the isotropic case.

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talk

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