The spatial string tension and dimensional reduction in QCD.

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The spatial string tension for 3+1 dimensional QCD at finite temperature is measured. The gauge configurations were generated with two light and one heavier strange quark on lattices of size $16^34$ and $24^36$. This spatial string tension is compared with the string tension of the 3 dimensional pure gauge theory together with the temperature dependent 2-loop running coupling. Further comparison is made with predictions from dimensionally reduced effective theories.