

## **QCD sum rules at finite temperature**

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### **Abstract**

Finite energy and Laplace transform QCD sum rules at  $T \neq 0$  are analyzed, and predictions for vacuum condensates are compared with the low temperature expansion of the energy density and pressure. Results show a serious disagreement which indicates a breakdown of the FESR programme already at dimension four, and which invalidates Laplace transform sum rules, at least in their straightforward extension to finite temperature.

### **Keywords**

Energy density, Field theory, Elementary particle, Quantum field theory, Particle acceleration.