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Hagedorn spectrum in pure Yang-Mills theories on the lattice

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We present a novel set of high-precision lattice results for the equation of state of the $SU(2)$ pure Yang-Mills theory in the confining phase.

The prediction of a gas of non-interacting, massive glueballs yields a remarkable description of lattice data, provided that a bosonic closed string model is used to derive an exponentially growing Hagedorn spectrum for heavy glueball states.

This effective model can be applied also to the $SU(3)$ Yang-Mills theory and describes with great accuracy lattice results reported by Borsányi et al. in JHEP 07 (2012) 056.

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