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Thermal properties of a glueball gas

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We study the thermodynamic properties, such as the pressure and the entropy density, of a gas of glueballs by considering the contribution of the tower of various glueball states obtained by using recent lattice calculations as well as other model results. We also include, to our knowledge for the first time, the effect of glueball-glueball interaction on thermodynamic properties. The results are compared with the current Yang-Mills lattice data and to other theoretical approaches.

Primary authors: TROTTI, Enrico; GIACOSA, Francesco (Kielce University); JAFARZADE, SHAHRIYAR (Jan Kochanowski University of Kielce, Poland)

Presenter: JAFARZADE, SHAHRIYAR (Jan Kochanowski University of Kielce, Poland)

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