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## **Topological Properties of SU(3) Yang-Mills theory with double trace deformation.**

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We study, by Monte-Carlo simulations, an SU(3) Yang Mills theory at finite temperature with a deformation proportional to the square of the trace of Polyakov loop. Due to this deformation, we can force the system to recover center symmetry even after the usual deconfinement transition. We analyse the properties of this new phase, in which center symmetry is not spontaneously broken, focusing our attention especially on the topological aspects.

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