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Pure SU(3) Topological Susceptibility at Finite Temperature with the Wilson Flow

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We give a summary of our preliminary results on the finite temperature topological susceptibility χ from pure SU(3) theory. The simulations use a Symanzik improved action and a gluonic definition of the topological charge with cutoff effects at the a^2 level. We use the Wilson flow to calculate a properly renormalized topological charge and its susceptibility. Our results suggest a very strong decay of the topological susceptibility above T_c in line with the results in literature.

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