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The electro weak transition and the equation of state in the SU(2)-Higgs-model

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Since the discovery of the Higgs particle at the LHC it is possible to investigate the equation of state for the electro weak transition in the SU(2)-Higgs-model at physical parameters. We will present a line of constant physics and preliminary results on the equation of state for small N_t values. The data was obtained by simulation with a combined heatbath and overrelaxation algorithm.

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