

# Quenched topological susceptibility fitting experiments.

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$\beta$	$\chi_T^{\text{que}} \beta$
2	0.0389(2)
3	0.0335(3)
4	0.0304(2)
5	0.0286(2)
5.5	0.0281(2)
6	0.0279(1)
6.5	0.0277(1)
7	0.02789(1)
7.5	0.0273(3)
8	0.0274(4)

Table 1: Results of  $\chi_T^{\text{que}} \beta$  for different  $\beta$  values obtained with pure gauge theory simulations.

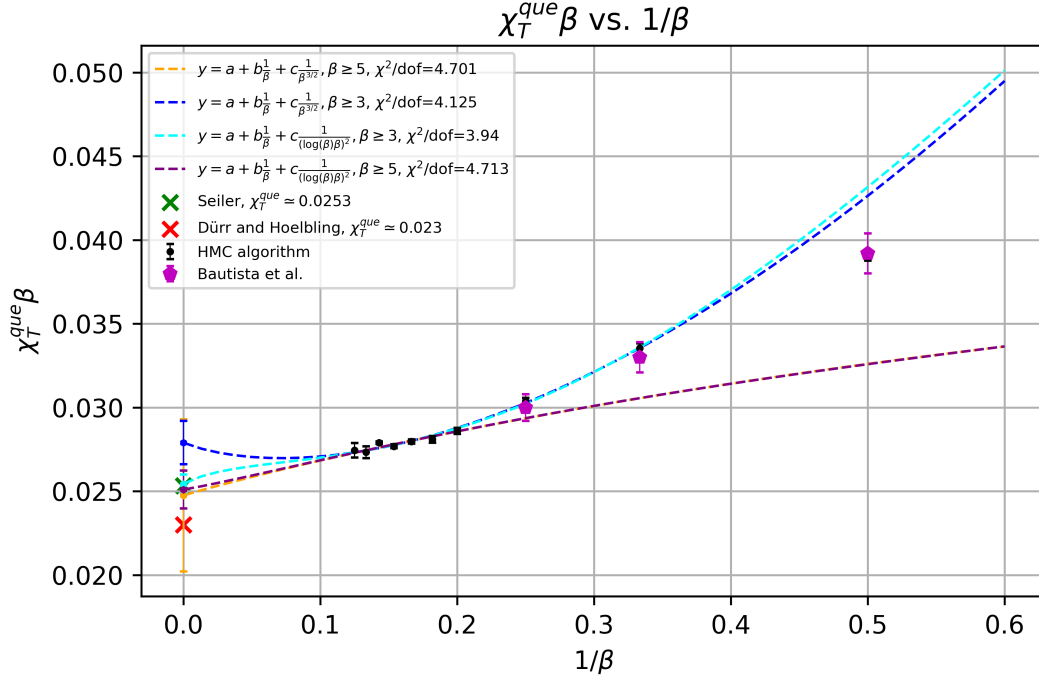


Figure 1:  $\chi_T^{\text{que}} \beta$  vs.  $1/\beta$ . We used the data from Table 1 to perform several fits, which we show in the legend of the plot. For the orange line the parameters are  $a = 0.0247(45)$ ,  $b = 0.0249(838)$ ,  $c = -0.0131(1379)$ ; for the blue line  $a = 0.0279(13)$ ,  $b = -0.0388(202)$ ,  $c = 0.0966(299)$ ; for the cyan line  $a = 0.0254(5)$ ,  $b = 0.0517(82)$ ,  $c = -0.0678(211)$  and for the purple line  $a = 0.0251(11)$ ,  $b = 0.0129(534)$ ,  $c = 0.0086(1118)$ .

## References

- [1] I. Bautista, W. Bietenholz, A. Dromard, U. Gerber, L. Gonglach, C. P. Hofmann, H. Mejía, and M. Wagner, *Phys. Rev. D* **92** (2015)
- [2] E. Seiler, *Phys. Lett. B* **525** (2002).
- [3] S. Dürr and C. Hoelbling. *Phys. Rev. D* **71** (2005).