奇异因子曲线

2022 年 5 月 16 日

1　全部图结果

计算所有图贡献的结果，和之前采取的格点结果对比起来，偏差比较大。

首先是中子的 GE 曲线图：

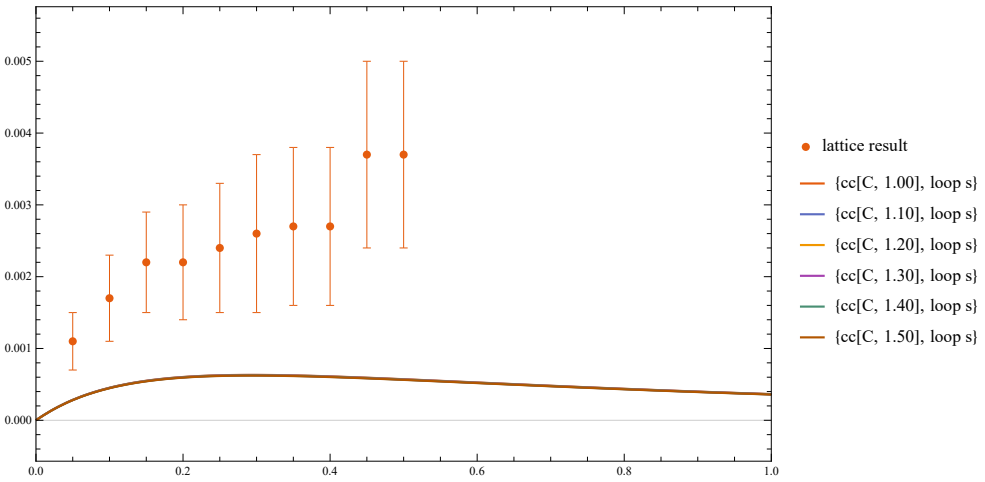

图 1: Λ=0.7

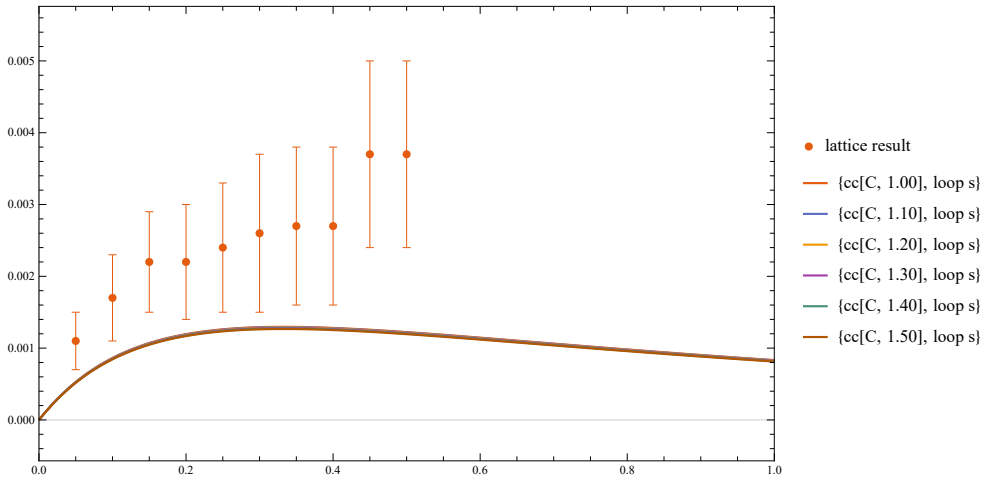

图 2: Λ=0.75

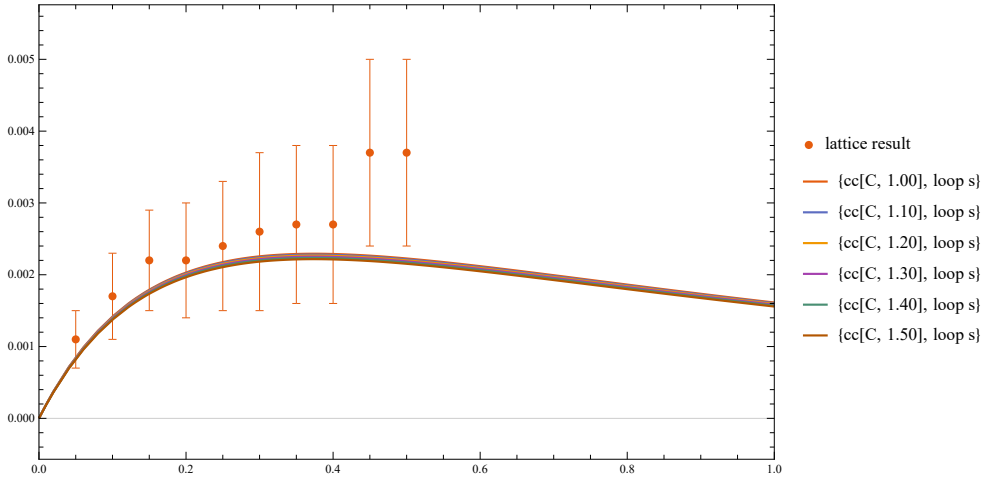

图 3: Λ=0.8

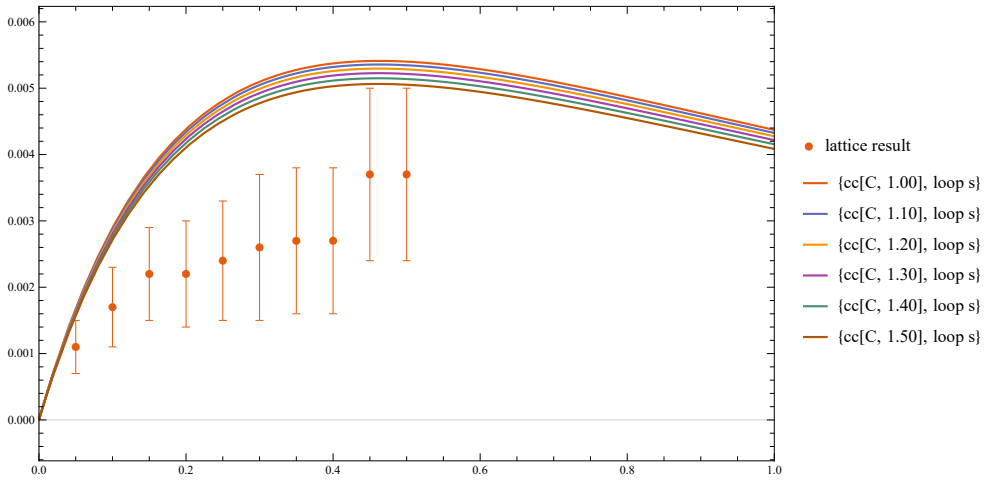

图 4: Λ=0.9

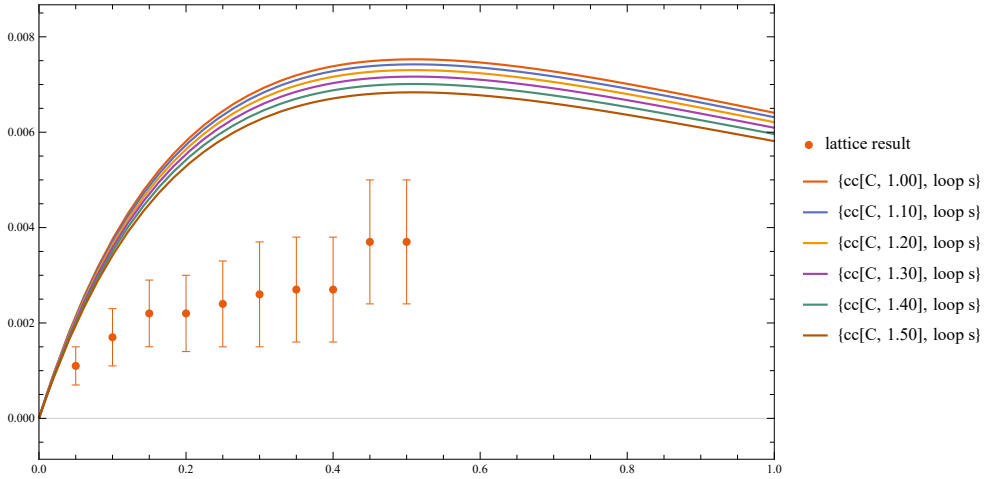

图 5: Λ=0.95

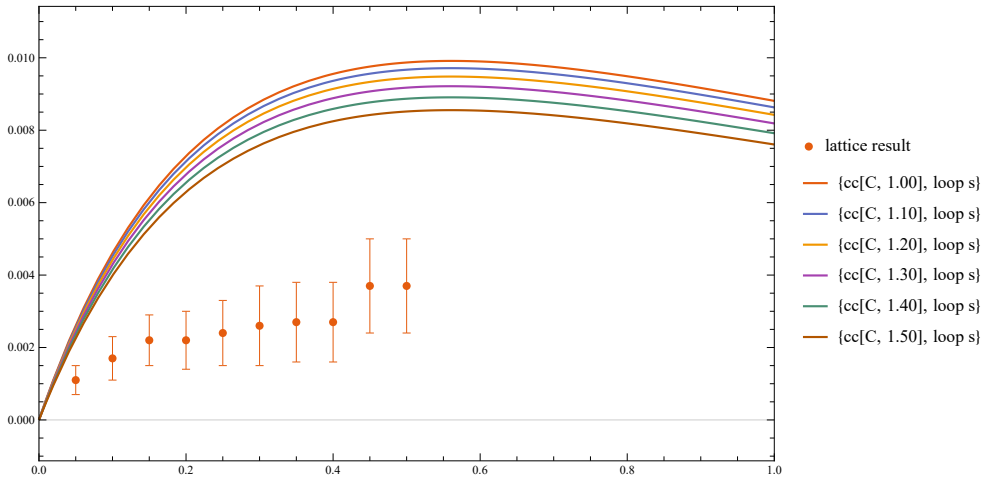

图 6: Λ=1.0

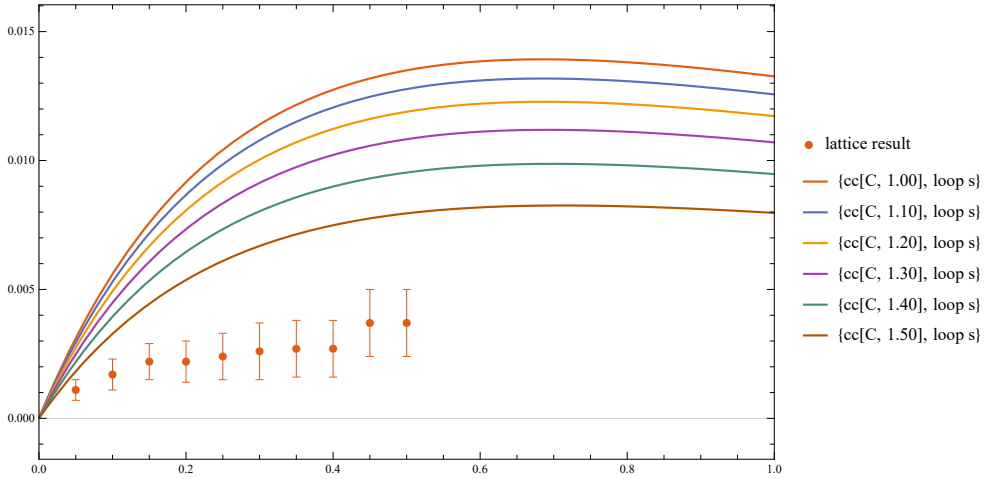

图 7: Λ=1.1

这里在 Λ 取 0.8 的时候，GE 的奇异形状因子结果比较好。
下面是中子的 GM 奇异因子曲线：

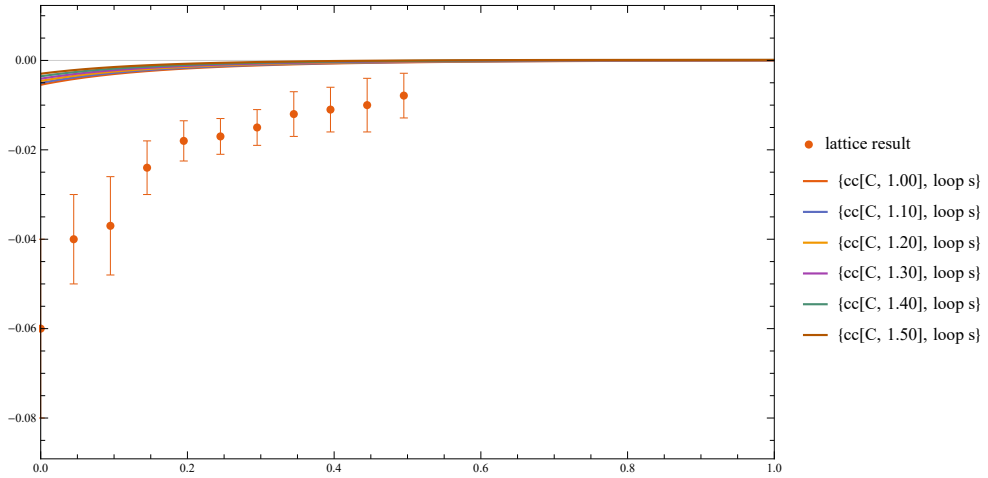

图 8: Λ=0.7

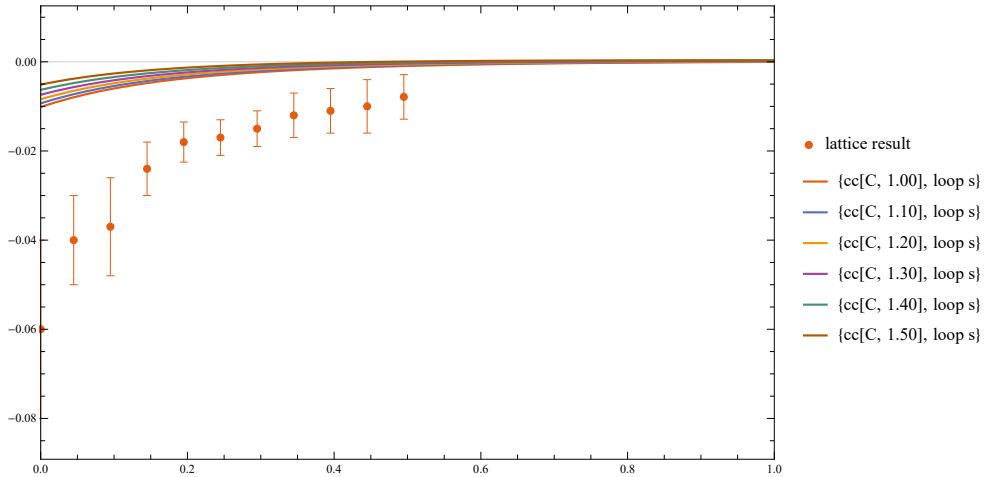

图 9: Λ=0.75

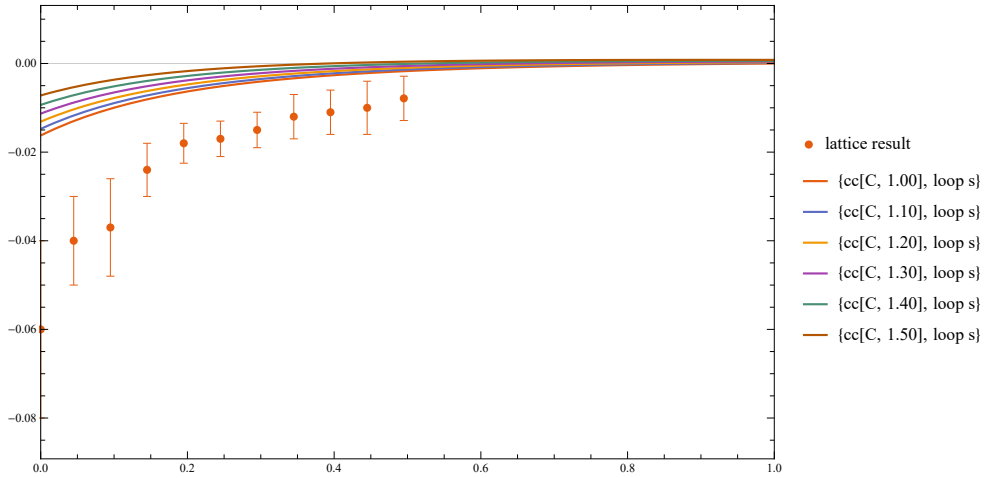

图 10: Λ=0.8

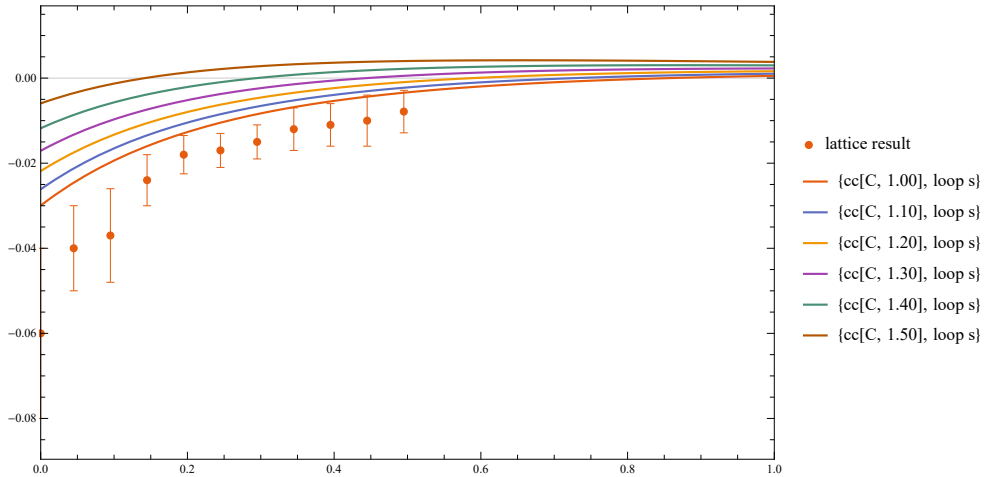

图 11: Λ=0.9

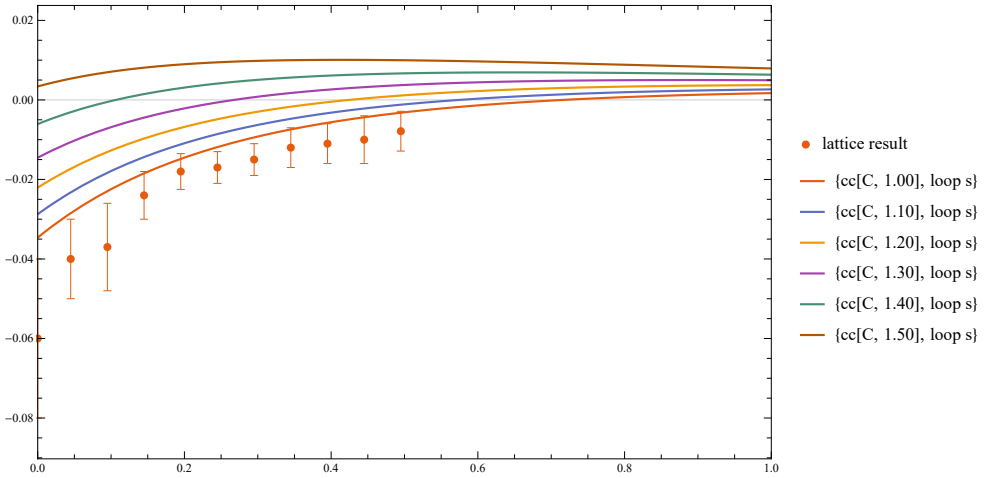

图 12: Λ=0.95

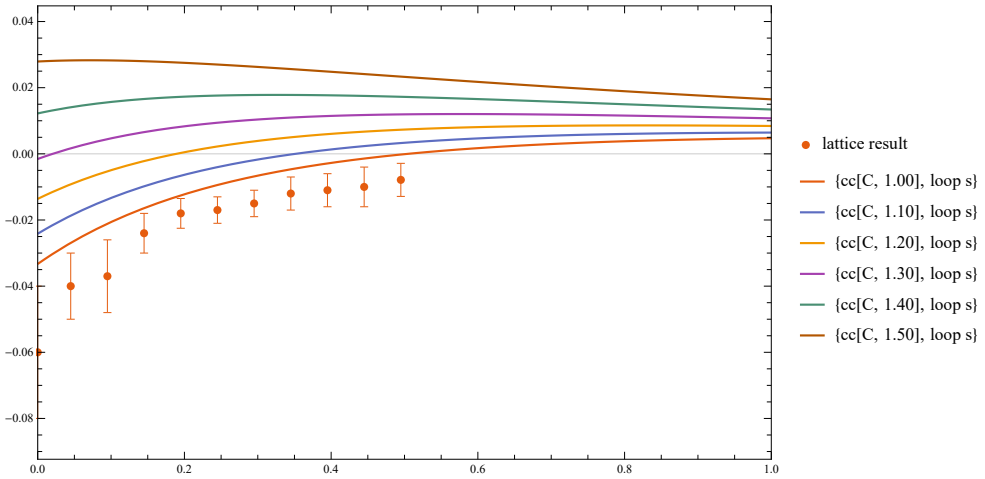

图 13: Λ=1.0

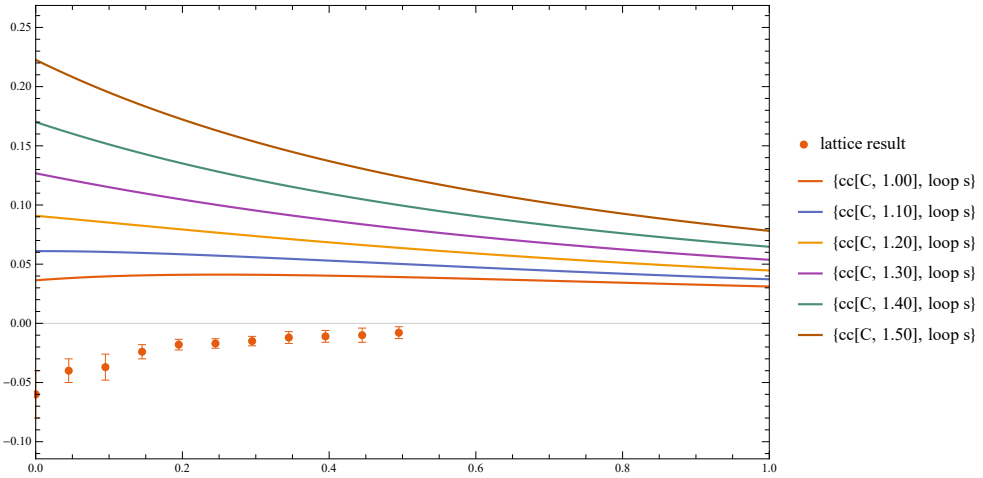

图 14: Λ=1.1

对于 GM 曲线，相对而言就没有那么贴合的结果了。

2 不考虑 bubble 的结果

目前能够画出上述曲线在不计算 bubble 图的贡献情况下的对应结果，整体上和格点结果更接近一些。

对应的，先是 GE 曲线：

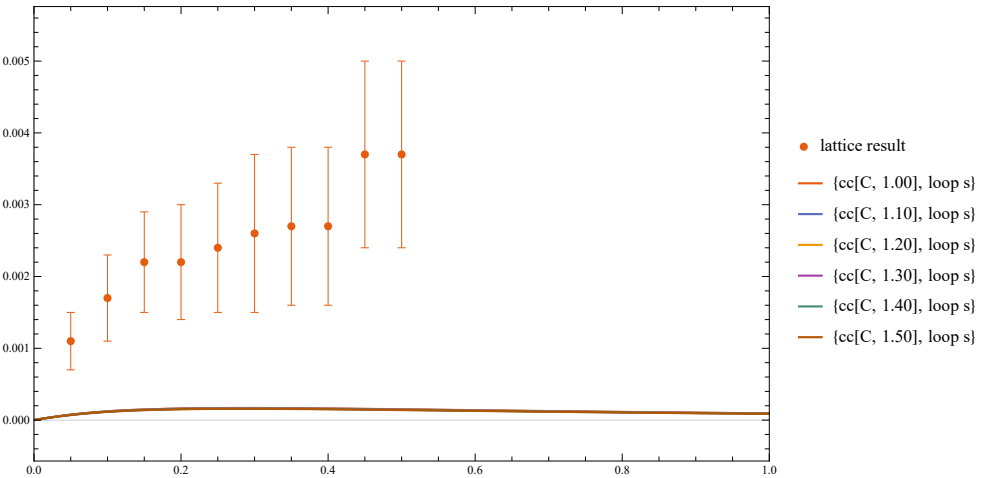

图 15: Λ=0.7

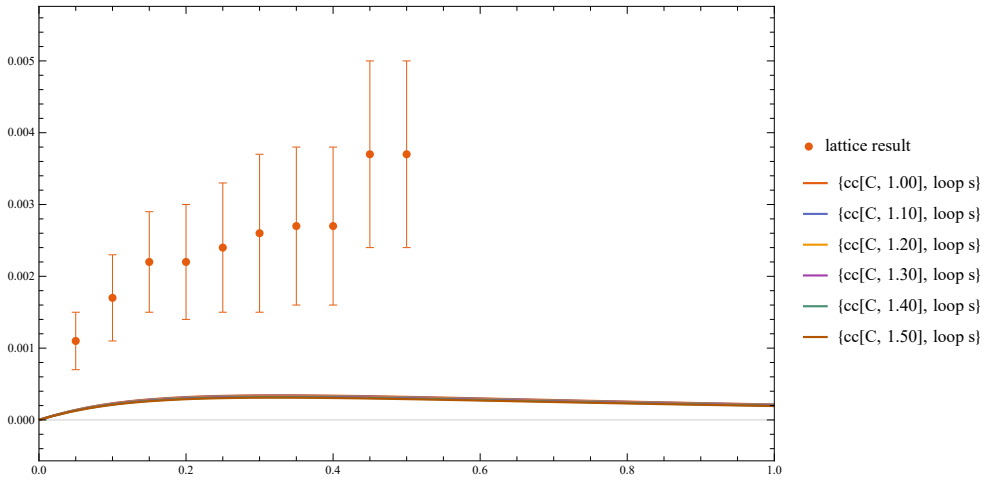

图 16: Λ=0.75

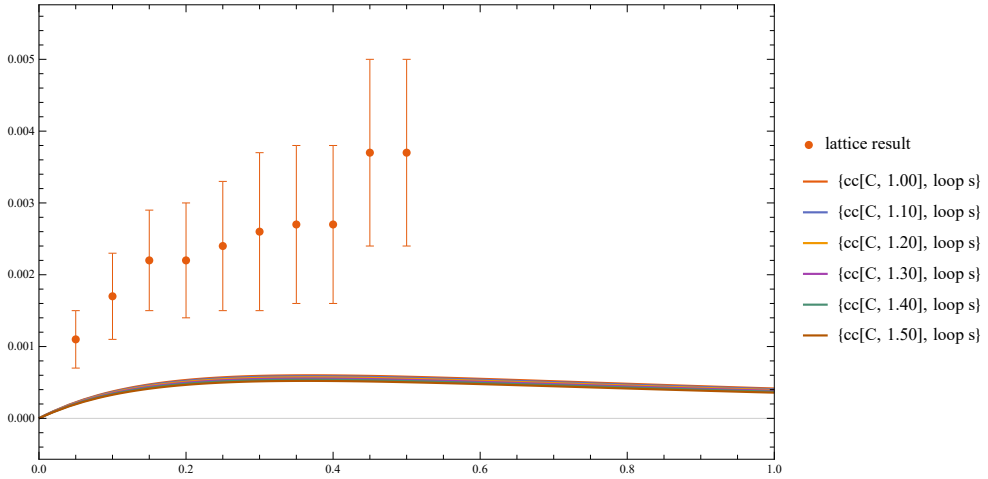

图 17: Λ=0.8

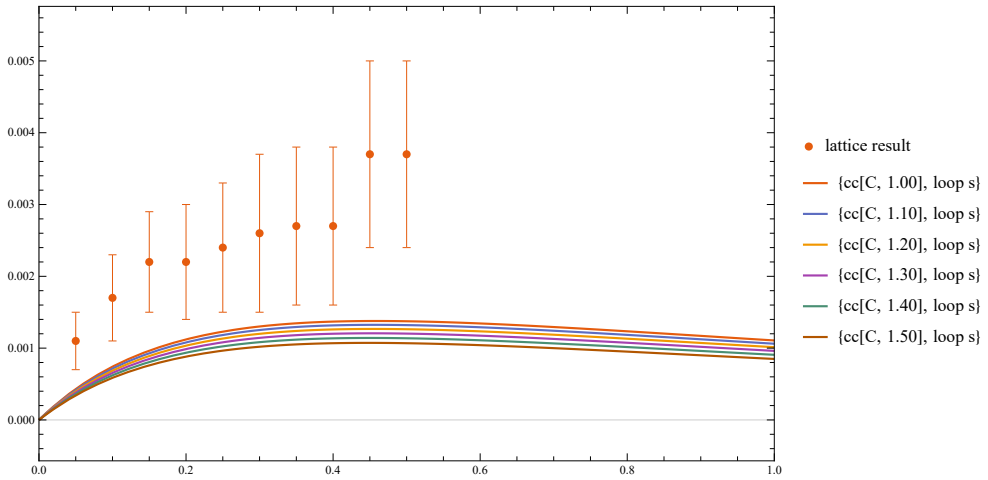

图 18: Λ=0.9

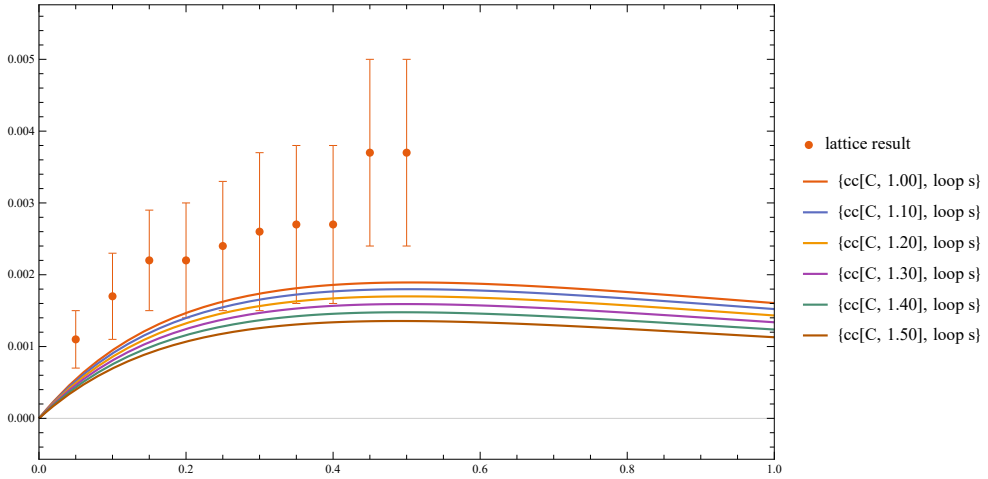

图 19: Λ=0.95

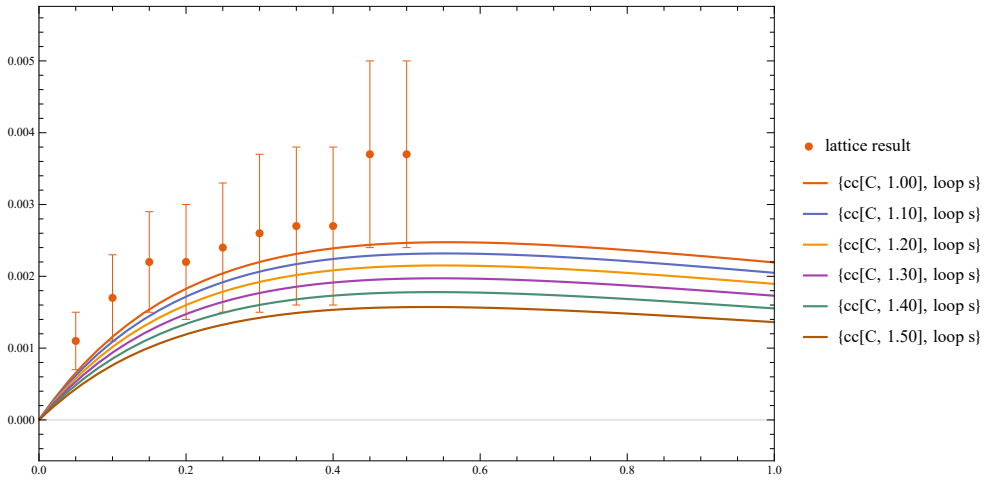

图 20: Λ=1.0

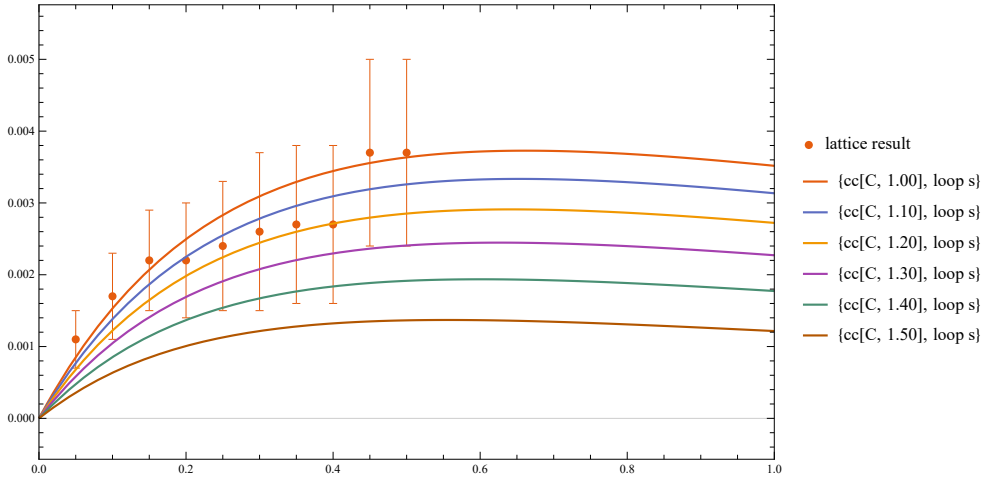

图 21: Λ=1.1

显然这里随着 Λ 变大，结果更贴近。

然后是 GM 曲线：

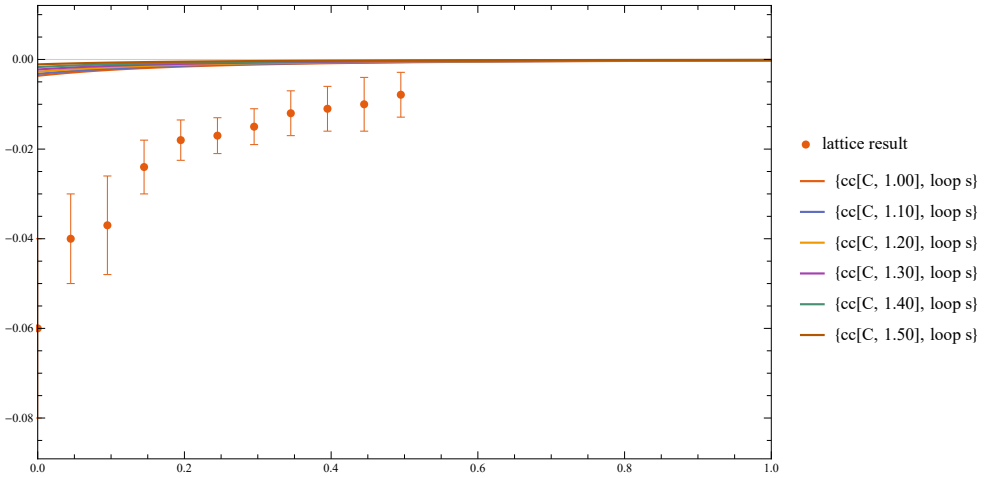

图 22: Λ=0.7

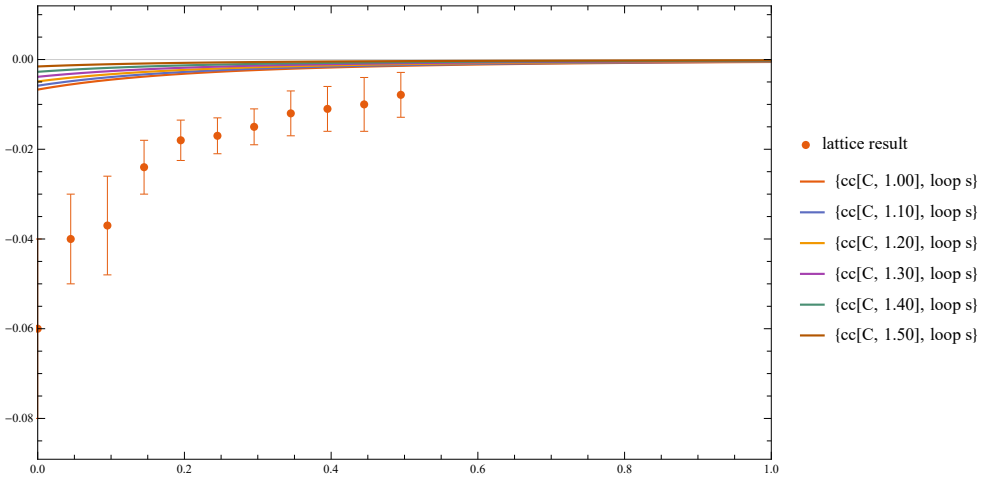

图 23: Λ=0.75

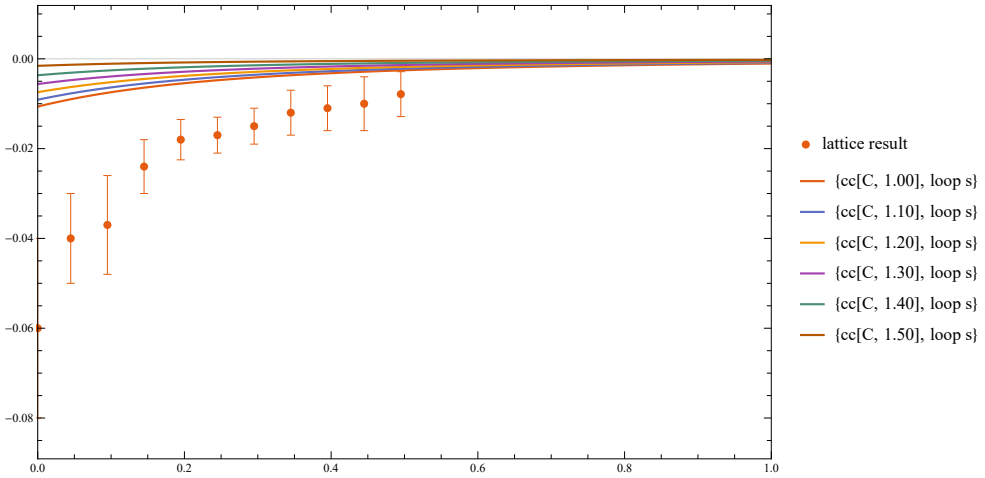

图 24: Λ=0.8

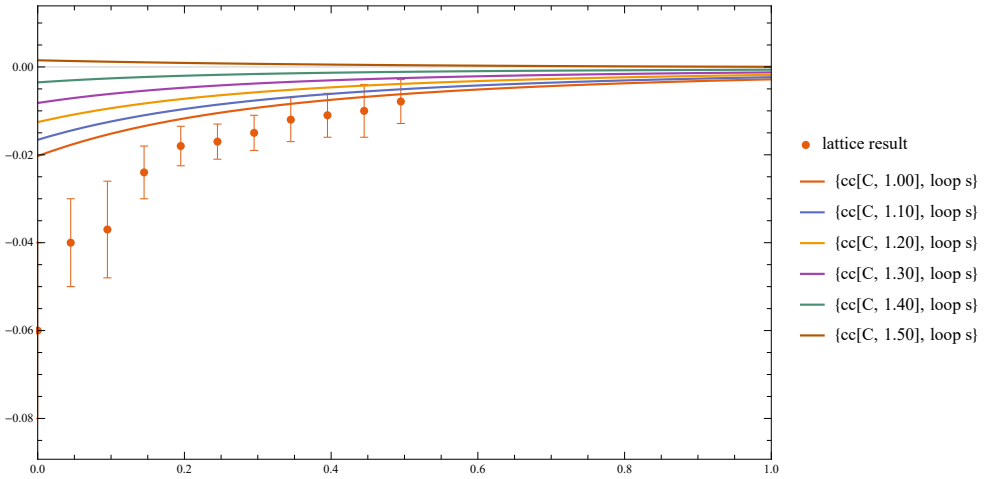

图 25: Λ=0.9

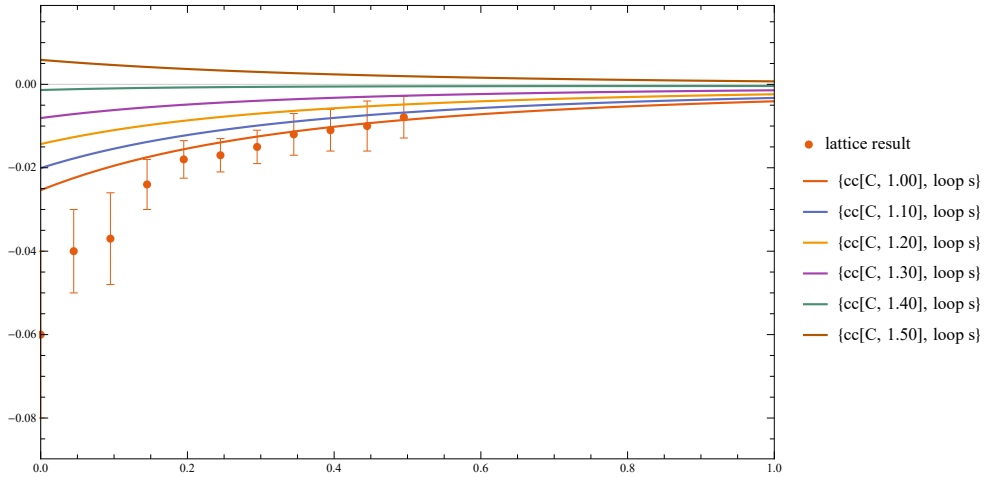

图 26: Λ=0.95

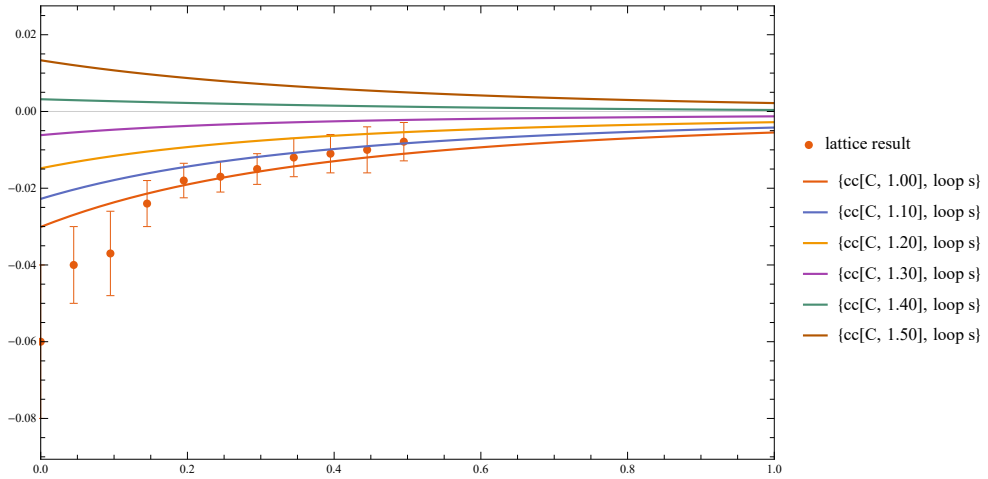

图 27: Λ=1.0

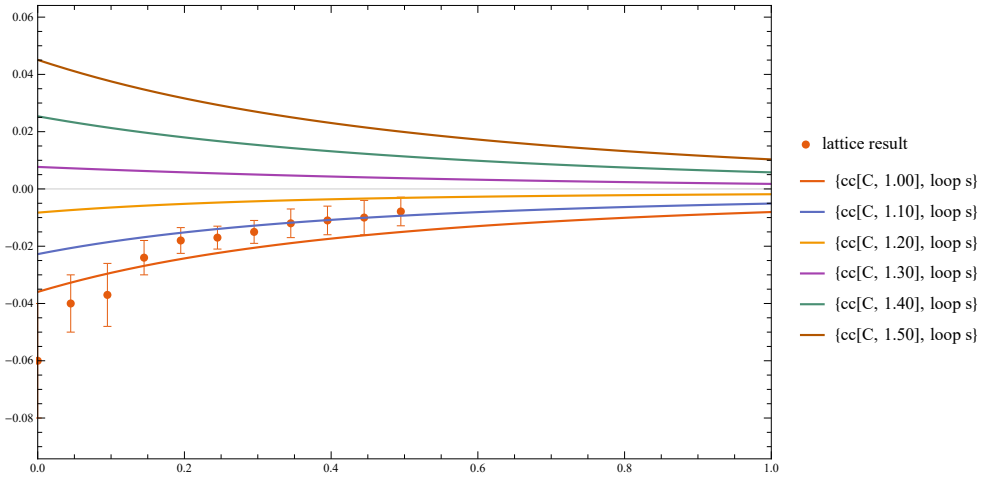

图 28: Λ=1.1

对于 GM 曲线，在考虑和不考虑 bubble 的之间，曲线本身的随 Λ 变化的规律比较接近，但不考虑 bubble 图的情况最后会更接近格点结果。