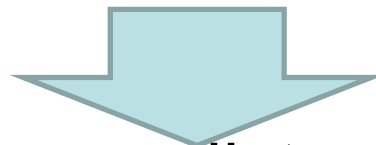


Verification of MBQC with trusted noiseless measurement

Since we perfectly trust measurement, it is sufficient to verify only the two-colorable (Black and White) graph state $|G\rangle$ by local measurements.

In two-colorable state, the Z values on one color sites decide the X values on the other color sites.



predicts

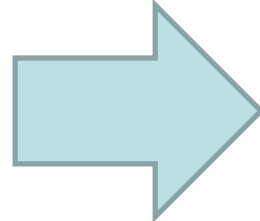
MH, Morimae 2015

Z measurement on **Black**

X measurement on **White**

Z measurement on **White**

X measurement on **Black**



Our verification:

We check whether X outcomes equal the prediction.