**Q2:** In 3.4. Lossy boson-sampling: **(I don’t understand this. The number of lost photons needs to be constant, not scaling with n)**

**A:** Yes, you’re absolutely right. The number should be the same among different experiments. But the constant number is not a priori digit. Here the calculation only wants to show how the loss affects the brightness and efficiency requirement. For a specific aim, such as 20 photons experiment, rather than a general scale law, perhaps we can pick an optimal lossy photon number to realize largest sampling rate. What do you think?

**Q3:** In the figure caption of Fig7: “**(Why does the curve have the change in direction?)**”

**Q6:** In Appendix A: “As shown in figure 10(a), the requirements for detectors and coupling is are rather high if without shutter and or photon-number-resolving detector **(CHECK THIS SENTENCE)**. “

**A:** No. In fig10(a), no shutter and no photon-number-resolving detector are used.

**Q7:** In Appendix A: “To satisfy SNR>2, we plot the requirements to achieve quantum system supremacy when with increasing photon number in figure 10(b) **(CHECK THIS SENTENCE).**”

**A:** Yes, you’re right. This sentence only wants to tell that, figure 10(b) is also under the condition SNR>2.