

Four Improvements of the Pinhole Planetarium

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The purpose of this study is to make the pinhole planetarium, which replicates the real starry sky. There were four problems in our planetarium.

The first problem was about the brightness of the stars. We expressed the brightness with the size of hole, but the size of bright stars was too big. The second one was that all the stars were the same color. The third one was that the range of stellar magnitude would become wider than before. So we have to use various radius holes. The fourth one was that the projector of the pinhole planetarium would be bigger than before. So, we have to make a stronger base.

This study showed the improvement on these problems.

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