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## Study on Detector Geometry Transformation and Visualization in Unity

In High Energy Physics (HEP) experiments, it is useful for physics analysis and outreach if the event display software can provide fancy visualization effect. Unity is a professional software that can provide 3D modeling and animation production. GDML format files are commonly used for detector description in HEP experiments. In this work, we present a method for automating the import of GDML files to Unity modeling through geometric transformation. With the conversion of file format, the complicated geometric description of HEP detector from the GDML file can be imported directly into Unity with fbx file. The visualization effects of detectors in Unity and ROOT from the same GDML files has also been compared to validate their consistence.

### Significance

### References

### Speaker time zone

Compatible with Asia

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