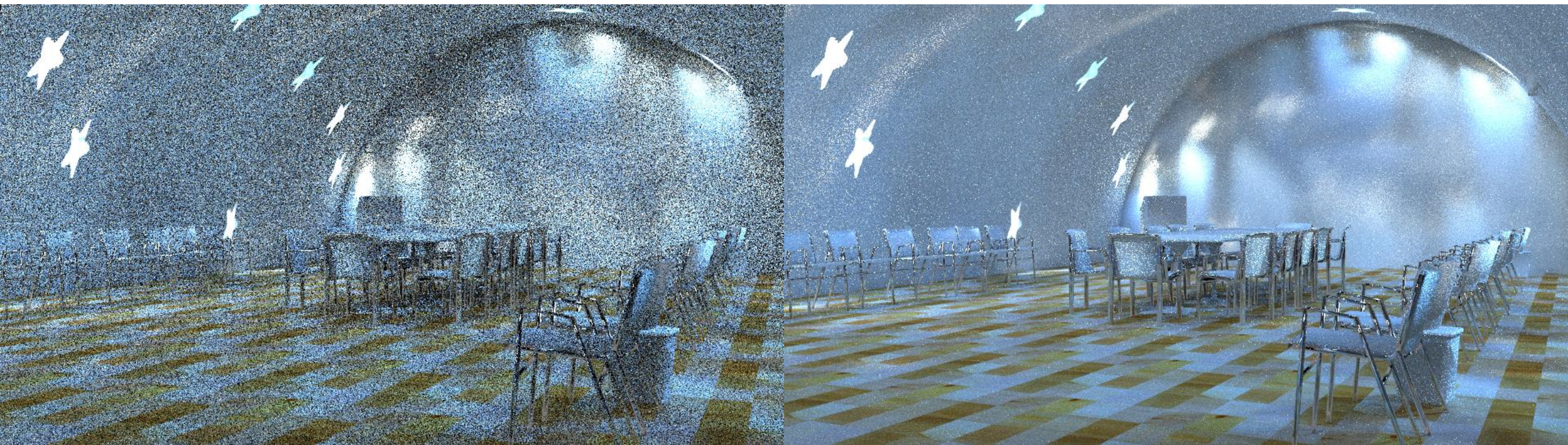


# Generalized Light Portals Additional Results

Shinji Ogaki

Conference room  
2 bounce global illumination





Equal time comparison

Left: environment map sampling and cosine-lobe sampling combined via MIS

Right: environment map sampling, cosine-lobe sampling, and portal sampling combined via MIS

HDRI: 10-Shiodome\_Stairs\_3k.hdr (<http://www.hdrlabs.com/sibl/archive.html>)





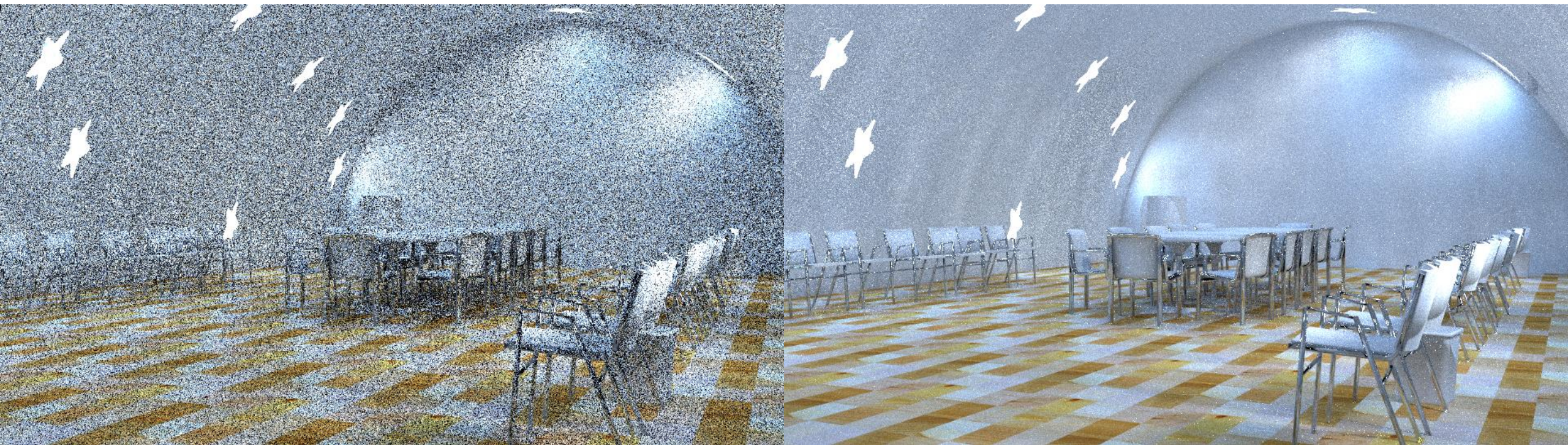
Equal time comparison

Left: environment map sampling and cosine-lobe sampling combined via MIS

Right: environment map sampling, cosine-lobe sampling, and portal sampling combined via MIS

HDRI: urban\_street\_03\_4k.hdr (<https://hdrihaven.com/>)





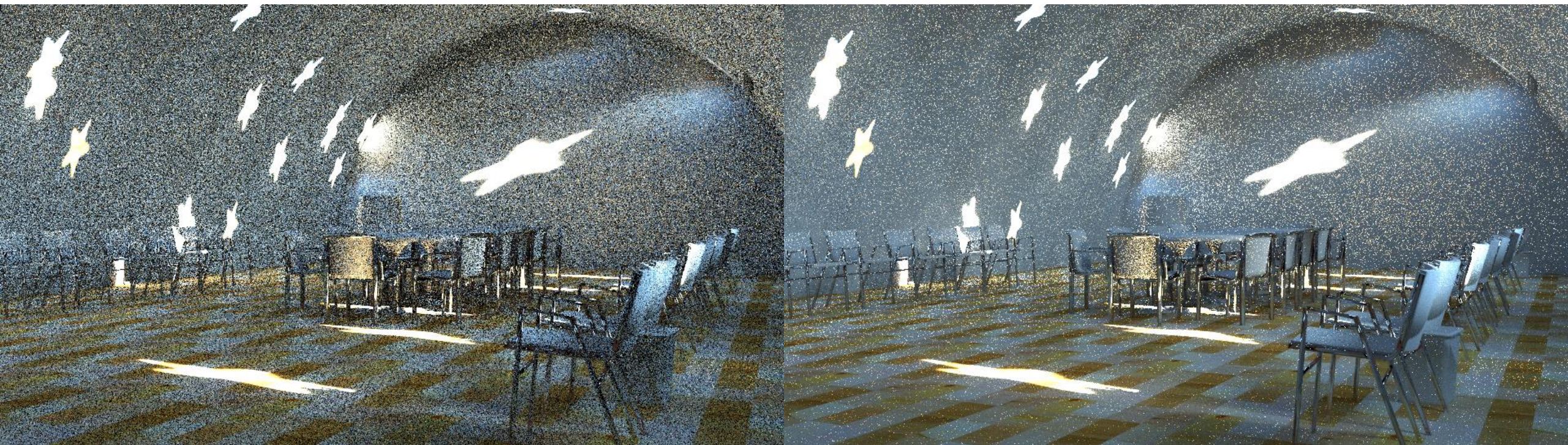
Equal time comparison

Left: environment map sampling and cosine-lobe sampling combined via MIS

Right: environment map sampling, cosine-lobe sampling, and portal sampling combined via MIS

HDRI: snowy\_forest\_path\_o2\_4k.hdr (<https://hdrihaven.com/>)





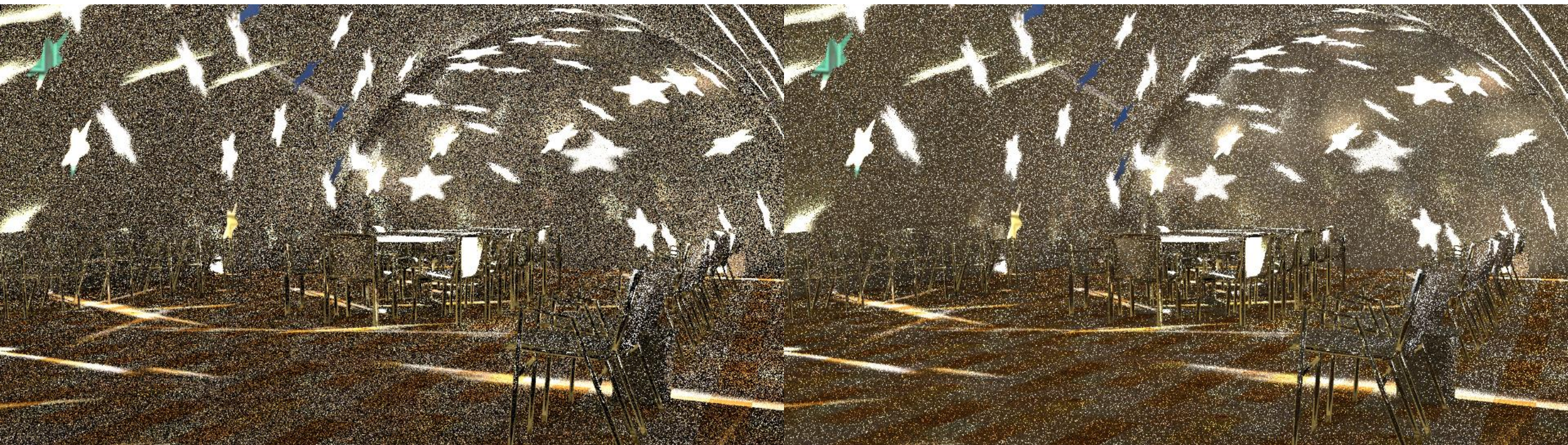
Equal time comparison

Left: environment map sampling and cosine-lobe sampling combined via MIS

Right: environment map sampling, cosine-lobe sampling, and portal sampling combined via MIS

HDRI:autumn\_meadow\_4k.hdr (<https://hdrihaven.com/>)





Equal time comparison (Failure case)

Left: environment map sampling and cosine-lobe sampling combined via MIS

Right: environment map sampling, cosine-lobe sampling, and portal sampling combined via MIS

HDRI: vignaioli\_night\_4k.hdr (<https://hdrihaven.com/>)



Car interior  
Direct illumination





Equal time comparison

Left: environment map sampling and cosine-lobe sampling combined via MIS

Right: environment map sampling, cosine-lobe sampling, and portal sampling combined via MIS

HDRI: urban\_street\_03\_4k.hdr (<https://hdrihaven.com/>)





Equal time comparison

Left: environment map sampling and cosine-lobe sampling combined via MIS

Right: environment map sampling, cosine-lobe sampling, and portal sampling combined via MIS

HDRI: WinterForest\_Ref.hdr (<http://www.hdrlabs.com/sibl/archive.html>)





Equal time comparison (Failure case)

Left: environment map sampling and cosine-lobe sampling combined via MIS

Right: environment map sampling, cosine-lobe sampling, and portal sampling combined via MIS

HDRI: sunny\_vondelpark\_4k.hdr (<https://hdrihaven.com/>)