Simulation of the multi-view imaging system with differentiable ray tracing

July 2021

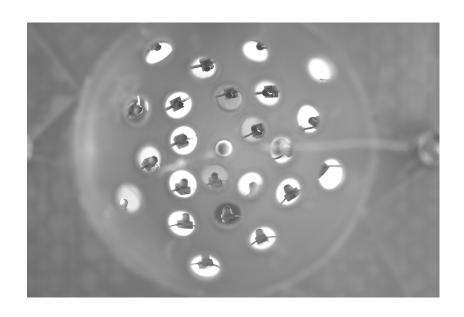




3d reconstruction



- Do as if each view was taken by a different pinhole camera
 - Run 3D reconstruction (e.g NeRF or standard algorithms)
 - Baseline & POC while we correct for simulator misspecifications
- Reconstruction with the simulator





Parameter fitting with mirrors



- Preliminary results: fitting the phase w/ mirrors & different parameters
 - Worse results in terms of absolute error wrt. mirrorless setup

