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Final Report on Diffractive Elements for X-ray Deformable Mirror Metrology

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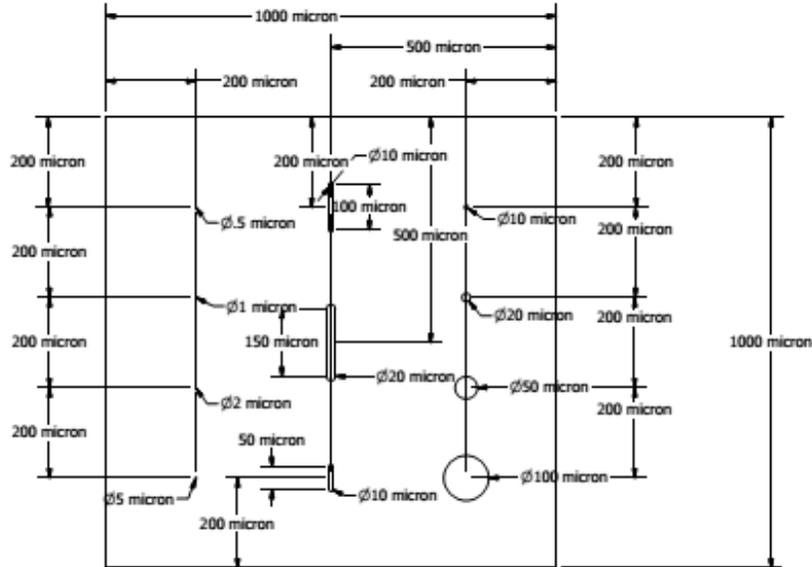
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In this project, a number of pinholes and slits of different sizes were required to be fabricated on a silicon nitride membrane window. Below is the window design.



Using electron beam lithography, we successfully fabricated the design on a 100nm thick silicon nitride membrane window. The structures were electroplated with 5um thick gold. Scanning electron microscopy was used for inspection. Below are the pictures. The project was completed as described in the proposal.

