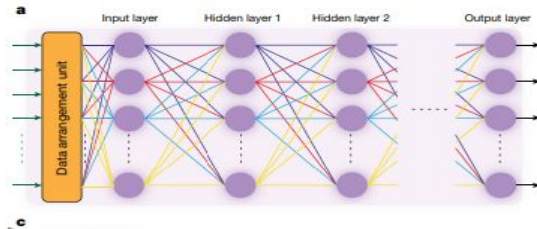


We hope to use optical principles and linear computing to further understand the visual nervous system, and through the help of photonic chips, to strengthen machine learning.

```
graph LR; Input([Input Image]) --> ImageProcessing[Image Processing]; ImageProcessing --> Convolution([convolution]); Convolution --> FeatureRecognition{feature recognition}; FeatureRecognition -- Yes --> Output([Output Image]);
```

We envisioned trying the physical equipment to complete the test, but lacked knowledge and practice.



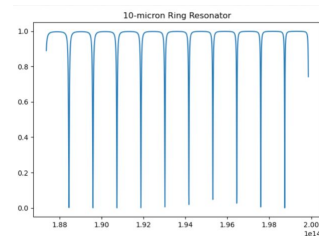
Next Steps:

Improve the simulator part, hoping to get the improvement rate of image recognition speed.

Try to understand and assemble a physical chip

- The image recognition
- Ring Resonator
- Convolution loop

The test programme shows the improvement on Simulator, but the final result is not ideal.

[illegible]