Hi Professor

This week I mainly work with Yilun and help with the teamwork as report recording and assistance .It is impressive for me to listen a lot of interesting report from our group and visitor team. Beside this I also give a brief introduction about what I done at UCDavis .

As for experiment testing ,I try to find the best beam profile without the focus lens in front of the output window of formic acid laser .Since there are multiply peaks for cavity shift from 0 to 8mm ,I try to figure out the beam shape by 2D line scanning through pick up some typical peaks . however, none of this peaks has fundamental gaussian shape, there are all have donut profile. but by installing a focus lens in front of window, the beam profile would looks more like gaussian shape. Next week, We will test the beam profile combined with the waveguide, than the launch optical and check the focus point .

Have a good weekend!

Hi Professor,

This week, I mainly worked with Yilun, help with the teamwork as report recorder and assistance. It was impressive to listen to many interesting presentations from both our group and the visiting team. Additionally, I gave a brief introduction about my work at UC Davis.

In terms of experimental testing, I focused on optimizing the beam profile without using the focus lens in front of the output window of the formic acid laser. Since there are multiple peaks when the cavity shifts from 0 to 8 mm, I conducted 2D line scans to analyze the beam shape at some typical peaks. However, none of these peaks exhibited a fundamental Gaussian shape; instead, they all showed a donut-shaped profile. By installing a focus lens in front of the window, the beam profile appeared closer to a Gaussian shape.

Next week, I plan to test the beam profile combined with the waveguide, then evaluate the launch optics and verify the focal point.

Wishing you a great weekend!

Best regards,  
Xinhang