

# 520 雷射物理與非線性轉換研究室

## Laser Physics and Nonlinear Conversion Technology Lab.

指導老師: 卓俊佑 Chun-Yu Cho

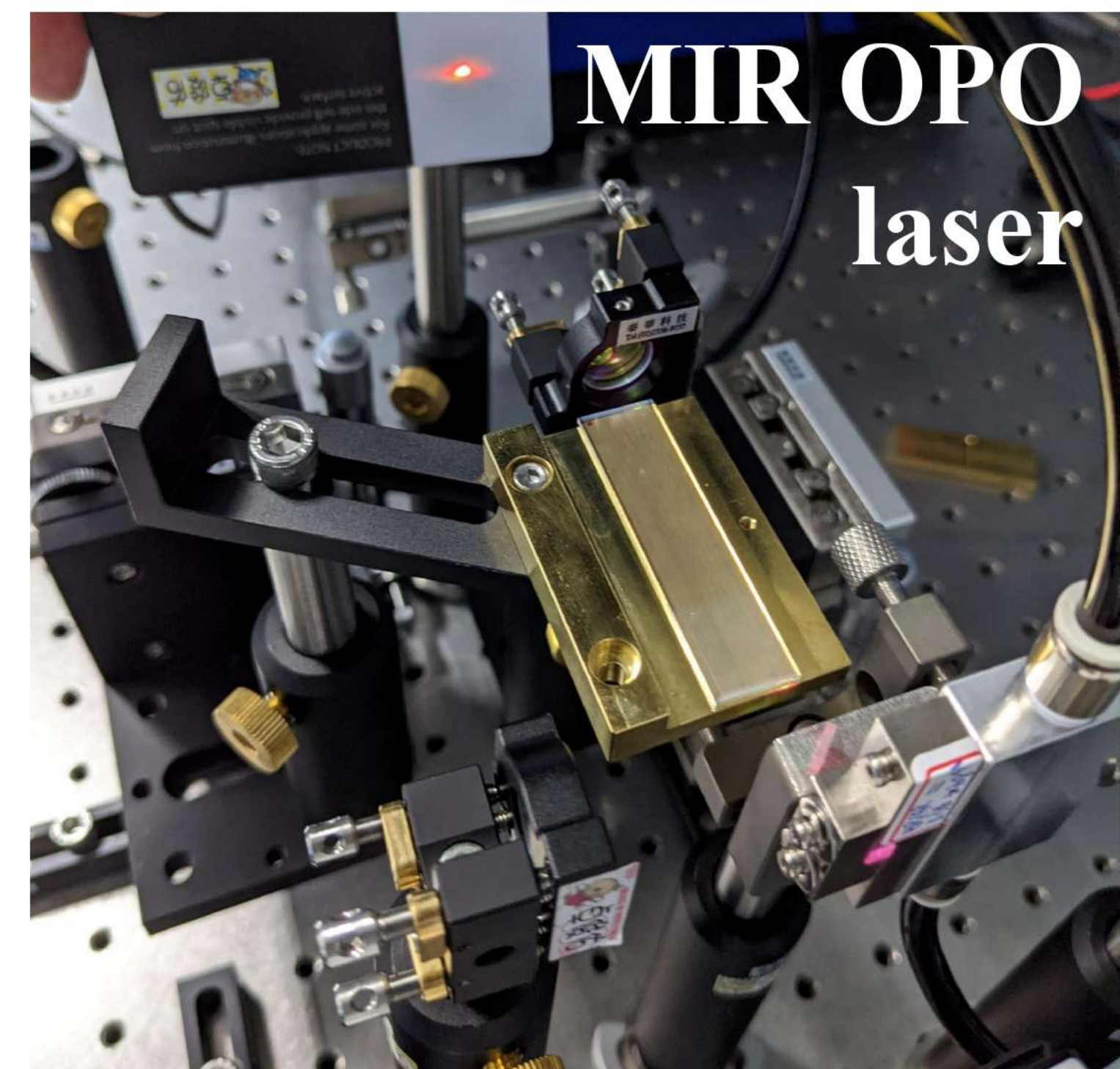
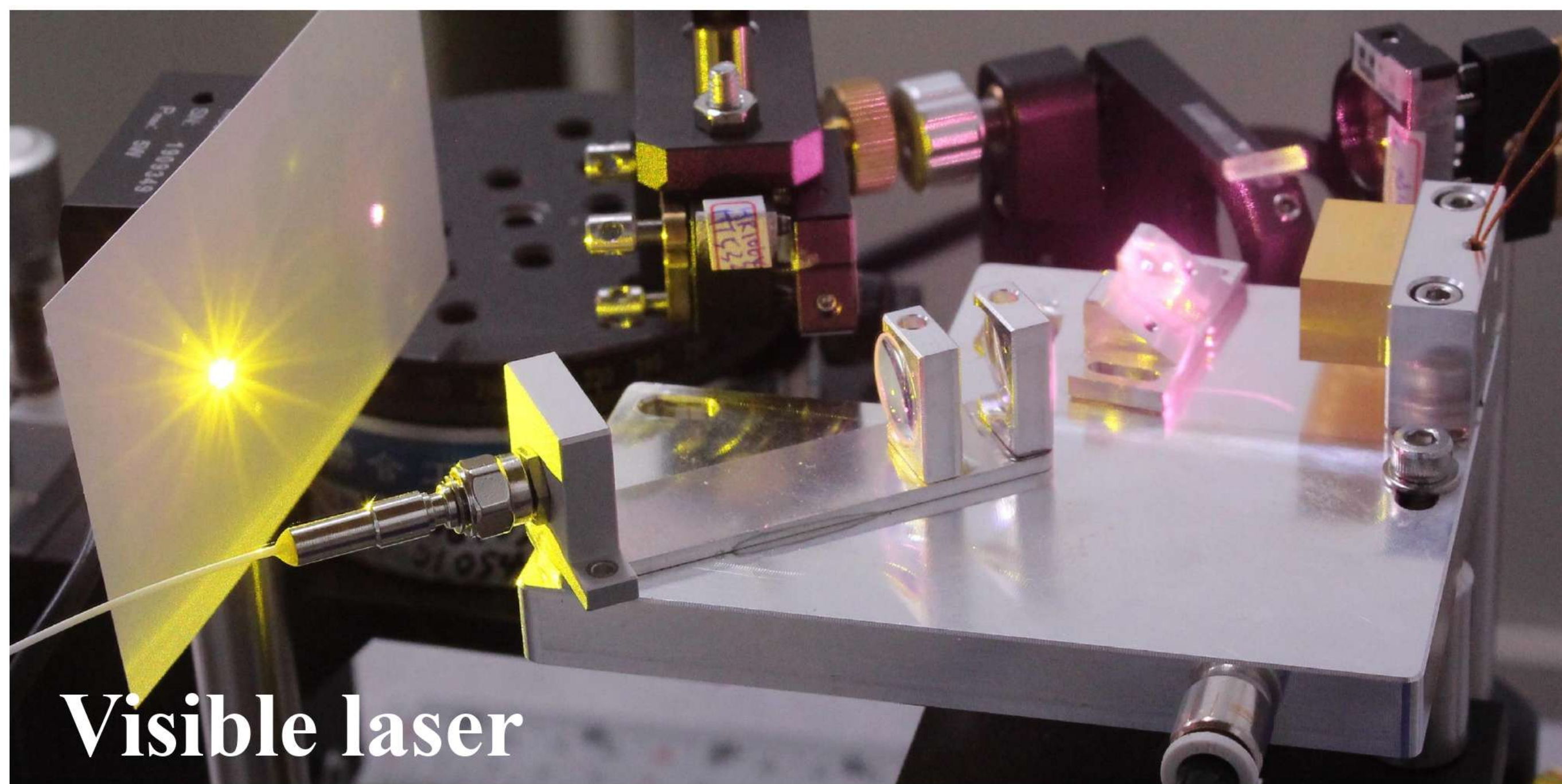


- 設計雷射
- 學習與觀察雷射特性
- 雷射特性模擬分析

- Design laser
- Observation laser dynamics
- Laser performances simulation



### ➤ 架設各式雷射 Laser setup

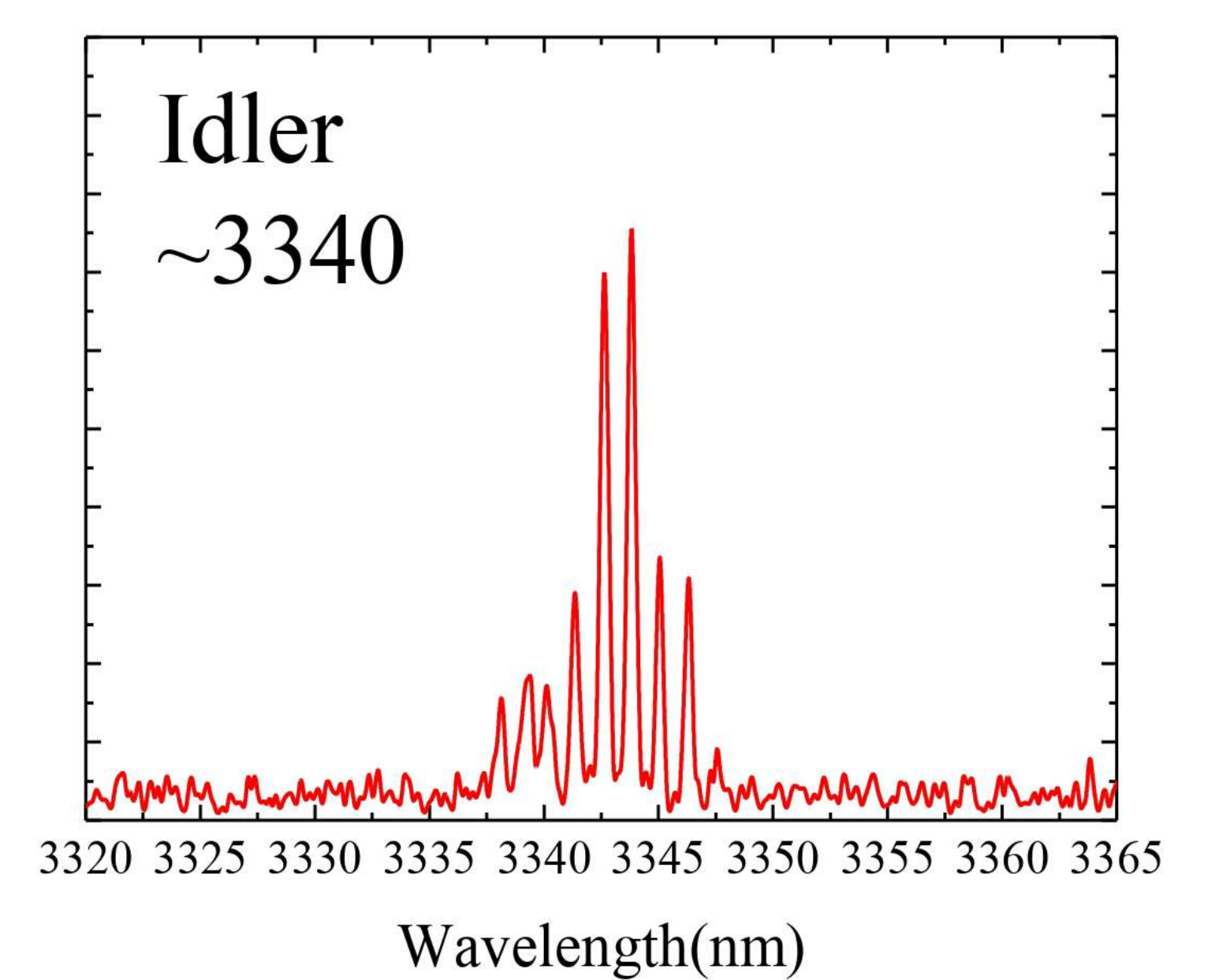
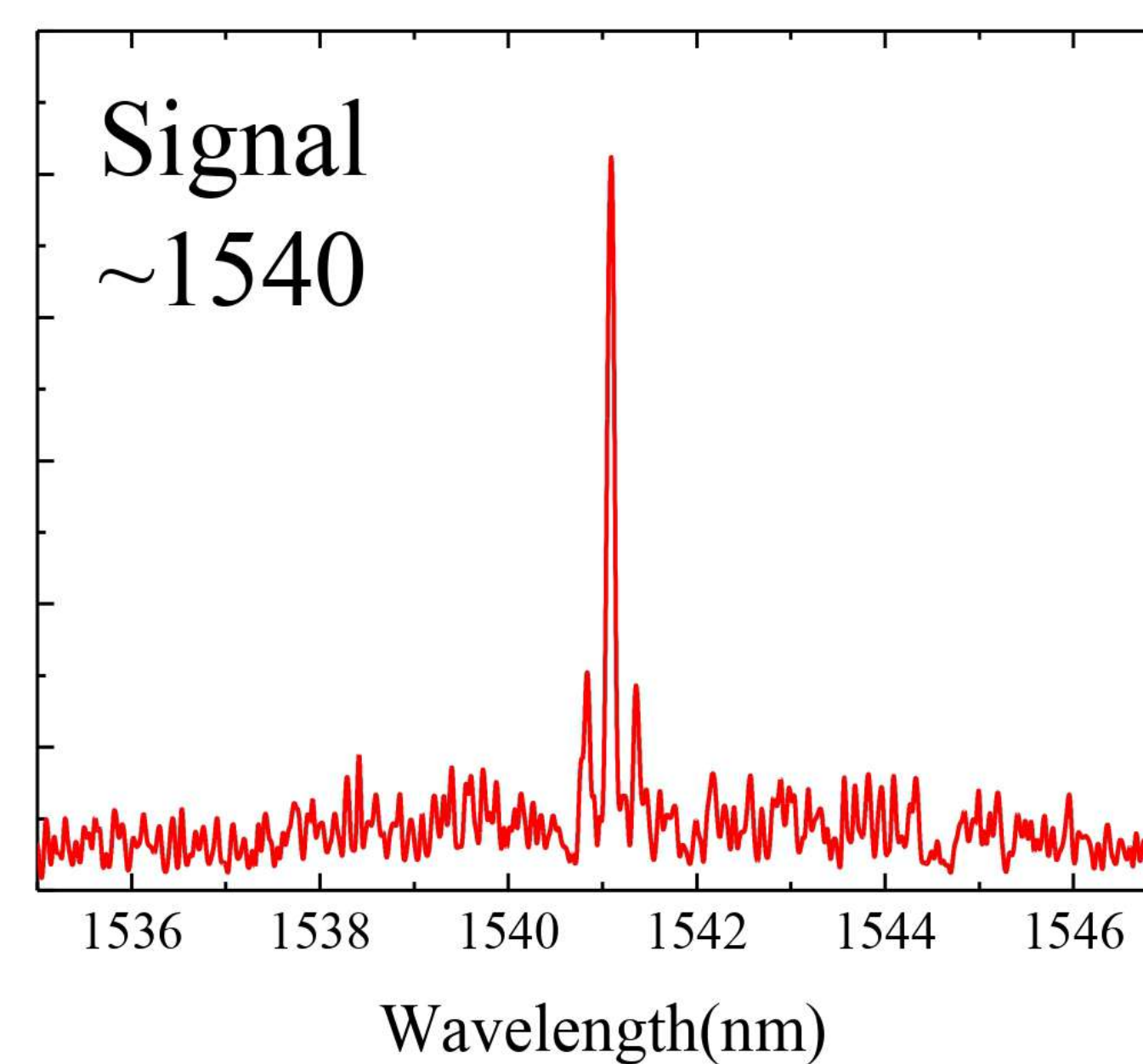
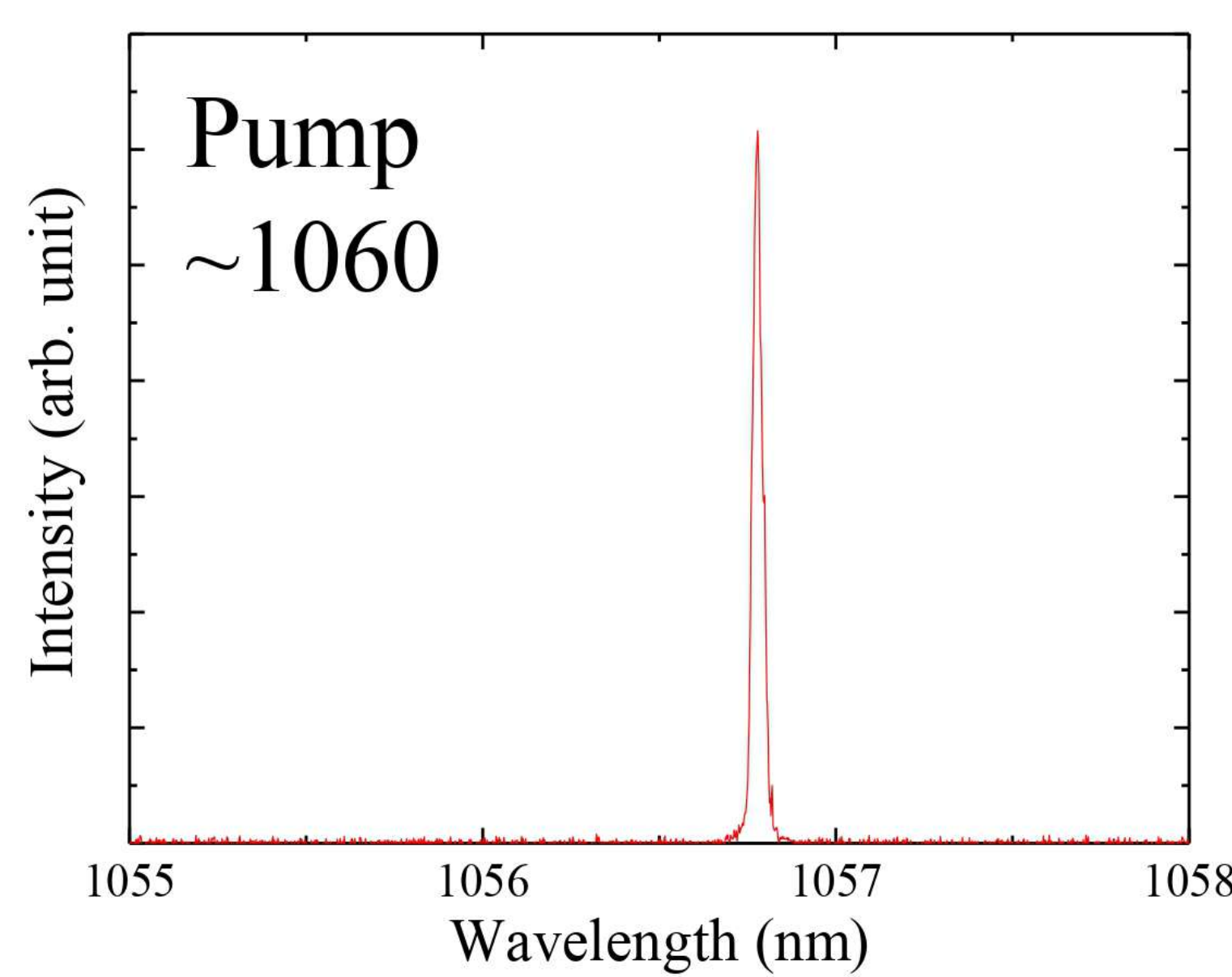


### ➤ 波長調變與分析 Wavelength conversion and analysis

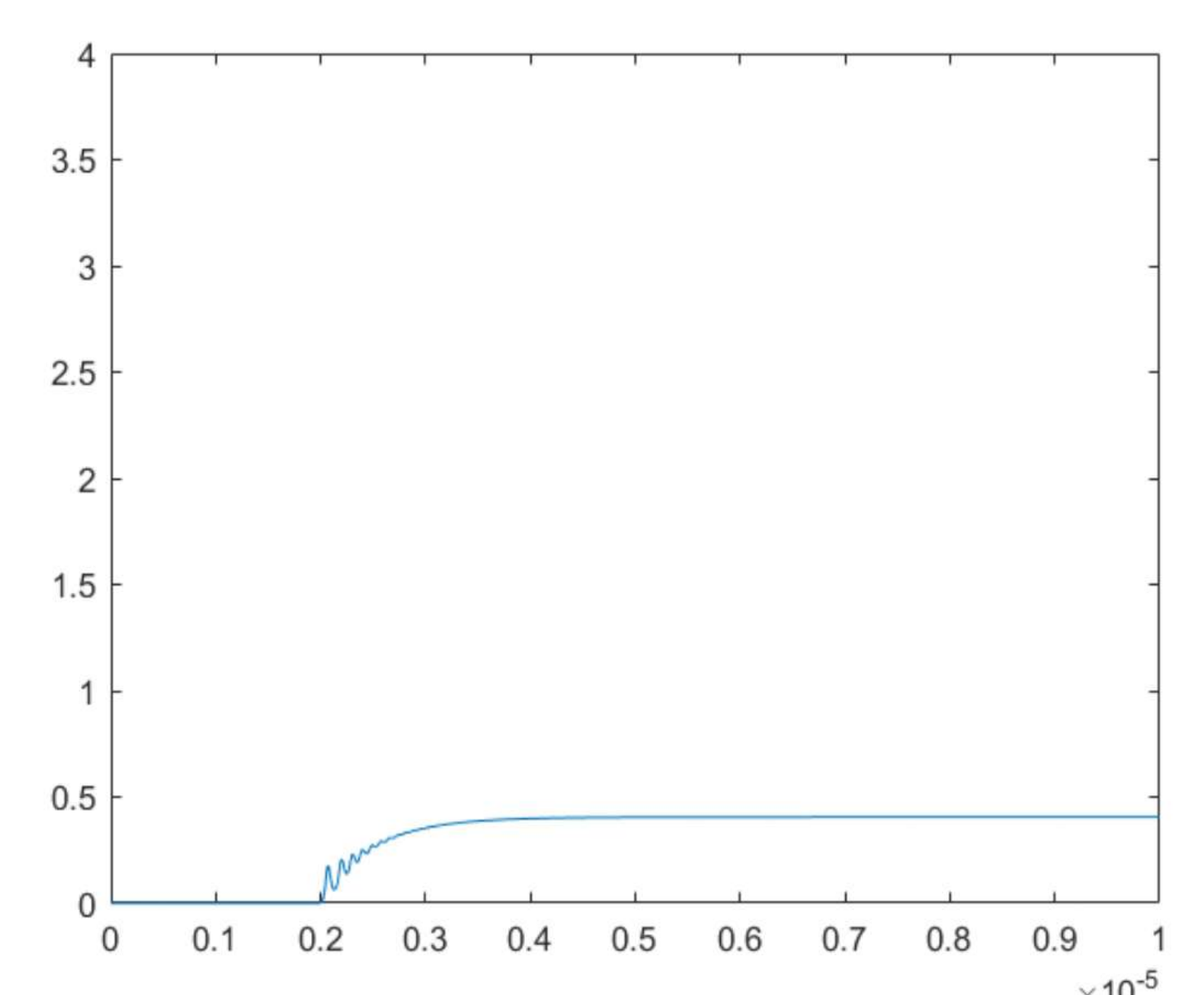
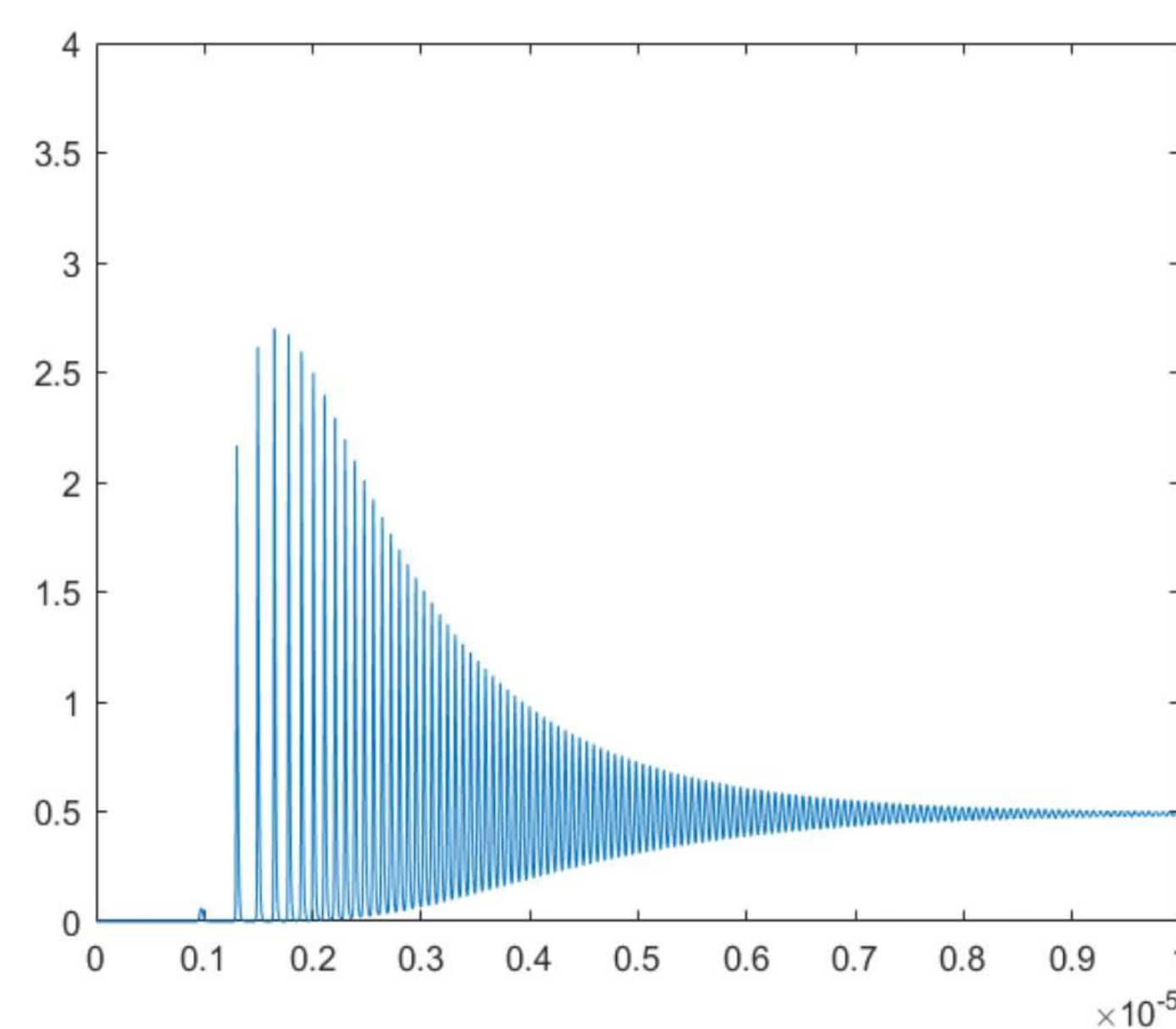
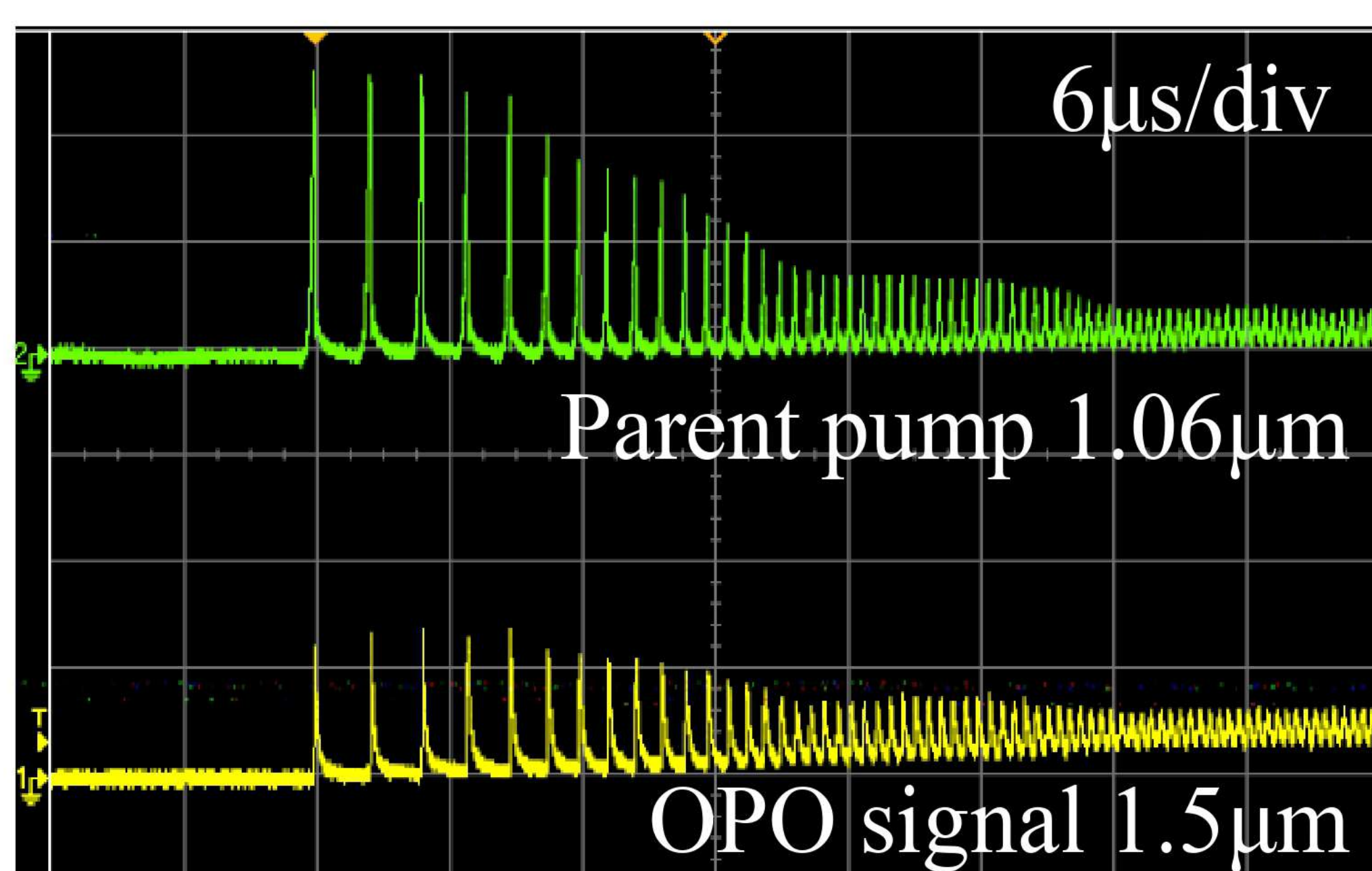
$$E = h\nu = h \frac{C}{\lambda}$$

$$E_1 + E_2 = E_3$$

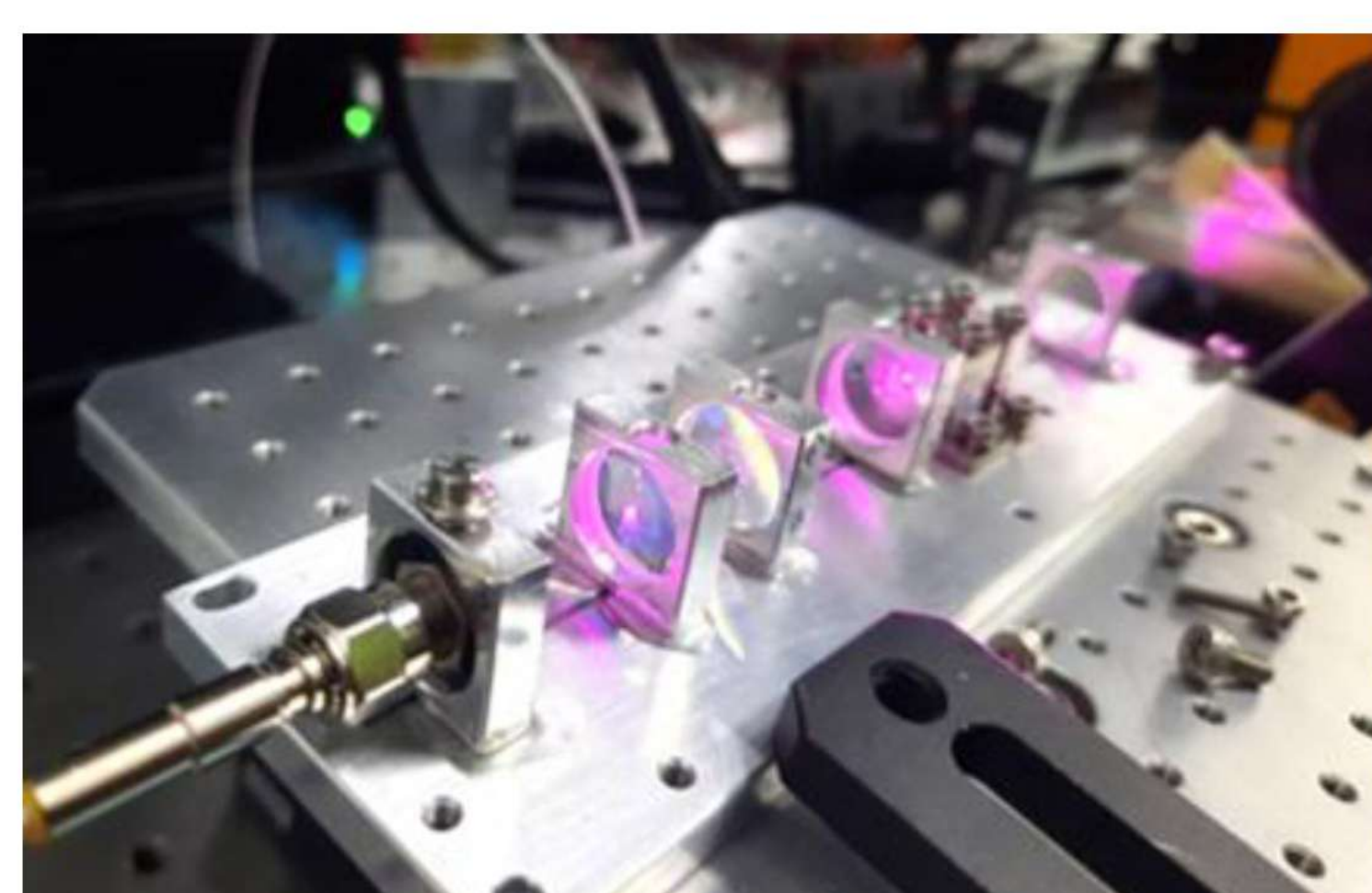
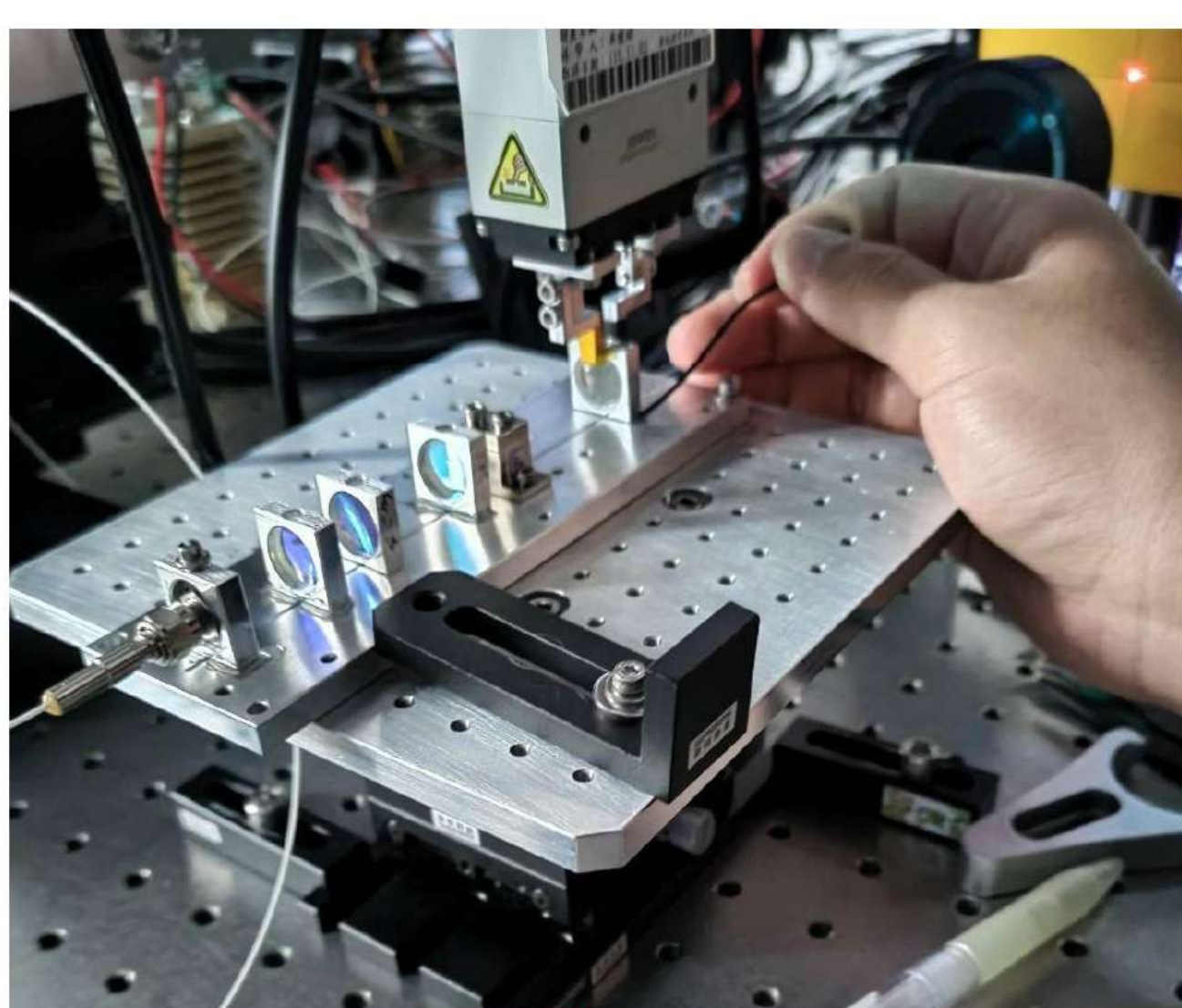
$$\frac{1}{\lambda_1} + \frac{1}{\lambda_2} = \frac{1}{\lambda_3}$$



### ➤ 雷射瞬時特性分析模擬 Laser transient dynamics observation and analysis



### ➤ 雷射組裝 Laser assembling



### ➤ 光斑圖形調變 Pattern formation



Website:

