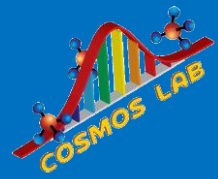
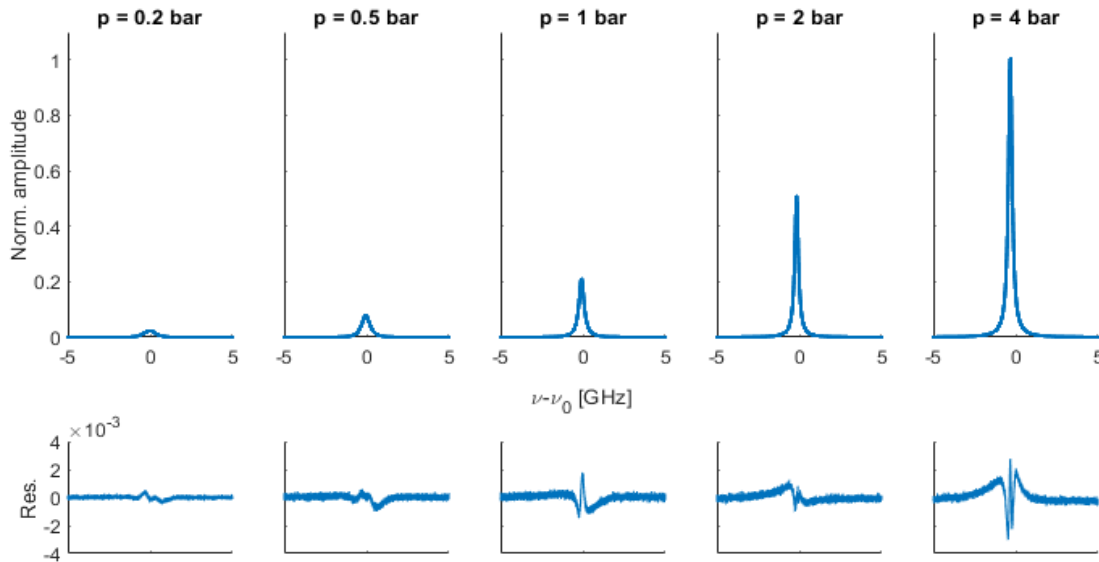
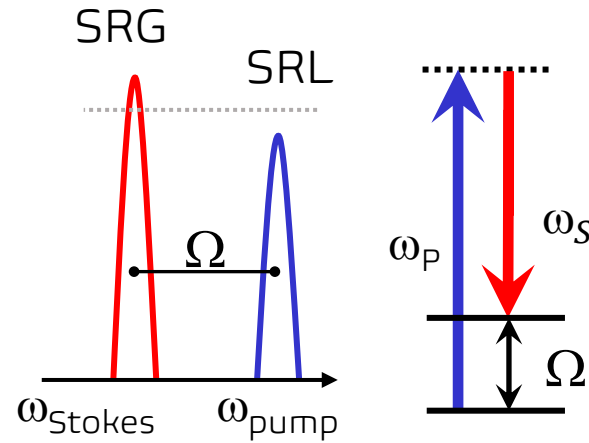


# Comb-calibrated nonlinear spectroscopy of the Q(1) 1-0 line of molecular hydrogen



## Coherent Raman (nonlinear) spectroscopy

- Quadrupole transitions allowed
- Rovibrational and rotational transitions within reach using widely tunable VIS/NIR lasers
- Metrology-grade CRS via frequency comb calibration



- Data fitting:
- (zero-pressure) transition frequency
  - collisional parameters

→ improved modeling required

