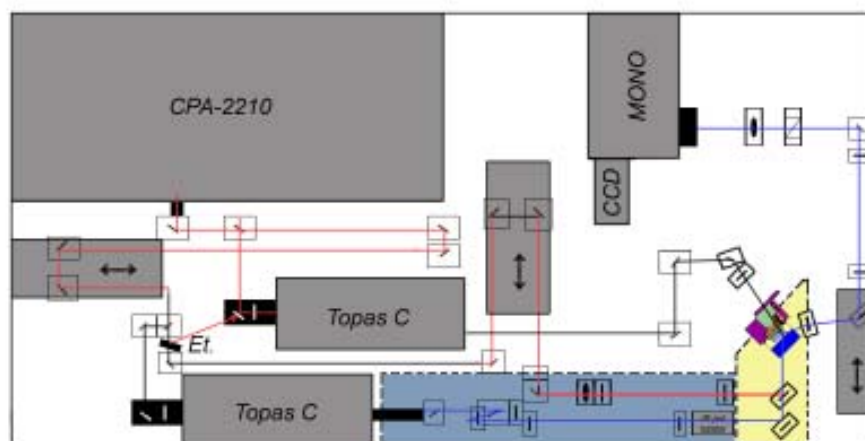


NONLINEAR BROADBAND VIBRATIONAL SPECTROMETER (SFG, CARS, SHG, THG and time-resolved, pump probe experiments)



SFG, SHG Spectroscopy probe surfaces

- Probe surface only*
- Suppress contribution from bulk*
- Sub-monolayer sensitivity*
- Measure orientation and degree of disorder, 2D phase transitions*
- Probe fast: provide real-time monitoring of surface concentration*
- Probe wide: over 200 cm^{-1} bandwidth*
- Expandable to time-resolved, pump-probe*
- Collinear or non-collinear geometry*

CARS, THG Spectroscopy probe bulk

- Probe bulk*
- Simple modification of SFG geometry*
- Increased S/N over spontaneous Raman*

General

- Broadband/Multiplex*
- Upgradable: configure as your experiments evolve*
- Flexible: Exchange samples and cells in minutes*
- Fits on 4' X 8' optical table*
- Efficient detection of coherent visible response*
- Fast data acquisition*
- Applicable to electrochemical, biological and thin films.*



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