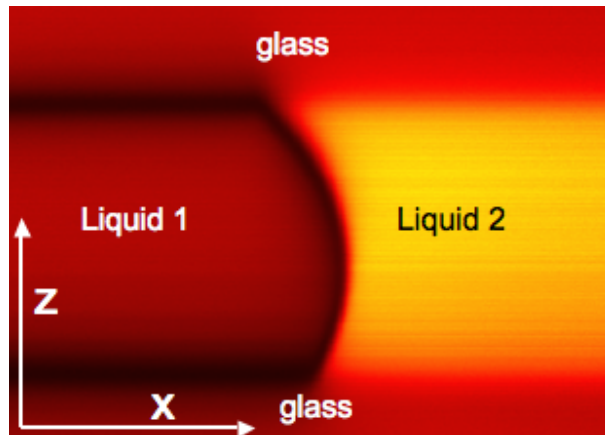


### Homework 3

Please send your answers electronically to [epotma@uci.edu](mailto:epotma@uci.edu) by midnight.

- a The image below consists of two liquids sandwiched between two glass coverslips. The liquid on the left exhibits dark contours near the interfaces that are absent in the liquid on the right. Try to describe the origin of these features.



- b Read the article 'Towards fluorescence nanoscopy'. Can you think of a way to improve the resolution of a CARS or SRS microscope?