- Because GlobalOptimization toolbox for MatLab is not free, Inspyred.py and Deap.py may be viable options.
- Can python interface with LabView?
    - Yes: LabPython, Calling Python Code from LabView, Call Perl and Python Scripts from LabVIEW

Elaborate on the following Questions

- What is the big picture?
    - Develop method for imaging with uniform distribution of light
        - Develop method to increase depth of field
        - Create non-diffracting beam (laser)
            - Without diffraction, there is no limit to the distance laser can travel with uniform distribution

- How many parameters?
    - What will be parameters?
    - Each "parent" is a phase function $\varphi(x,y)$
        - 10 phase functions will be sent to SLM
        - Function of x and y (2 parameters

- How do we measure fitness?
    - Similarity of planes, size, max of secondary peaks

- What is meant by "profile"?
    - Intensity = I(x,y) = Amplitude^2 = A(x,y)^2
    - Intensity or amplitude profile = 2D distribution of light
    - We will measure the 2D intensity profile with a 2D camera. I(x,y)

More Questions/Comments…

- SLM will affect phase of laser.
- What is meant by "phase"?
    - A single wave-peak from a source
    - Two waves aligned crest to crest and trough to trough are said to be in **phase**
    - the fraction of the **wave** cycle that has elapsed relative to the origin.