The four step algorithm. What we want is the phase  $\phi$  associated to each point (x,y). If we consider four measurements and a shift of  $90^o$ , the amplitude for a given point in each measurement is:

$$A_{1}(x, y) = A_{0} \cos(\phi(x, y))$$

$$A_{2}(x, y) = A_{0} \cos(\phi(x, y) + \pi/2)$$

$$A_{3}(x, y) = A_{0} \cos(\phi(x, y) + \pi)$$

$$A_{4}(x, y) = A_{0} \cos(\phi(x, y) + 3\pi/2)$$

$$(1)$$

which can be solved for the phase as:

$$\phi(x,y) = \arctan\left[\frac{A_4 - A_2}{A_1 - A_3}\right] \tag{2}$$