Simulating the polarised sky for weak lensing studies

- The problem?
 - We want to measure the distortion of distant galaxy images by intervening matter. This helps us probe large scale structure and dark energy.
 - But our major systematic error arises from unknown galaxy angles (GA).

- The solution?
 - We can use the polarisation position angle (PPA) as a proxy for galaxy angle.
 - Key points:
 - PPA is correlated with GA.
 - Polarisation direction is unaffected by gravitational lensing.