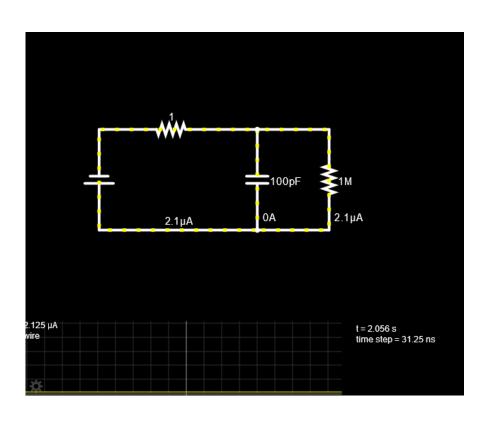
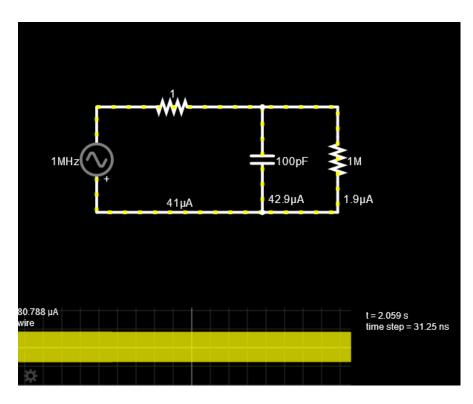
Circuit simulation



DC simulation, current at -2V is 2.1µA



AC simulation, peak current at -2V is 81μA with 125mV 1Mhz oscillation

Conclusion: Even if measured DC dark current is <10 μ A, AC current can be ~100 μ A and this is what is measured on the MFIA lock-in current meter