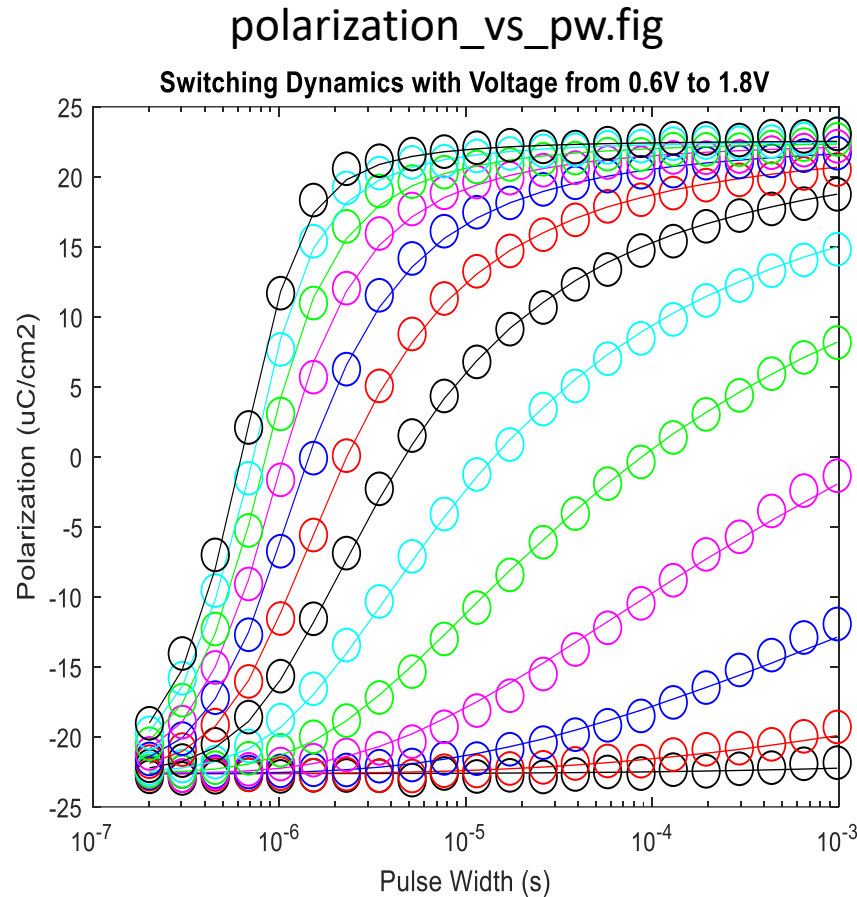


Scalable Ferroelectric FET Model

Kai Ni

01/10/2020



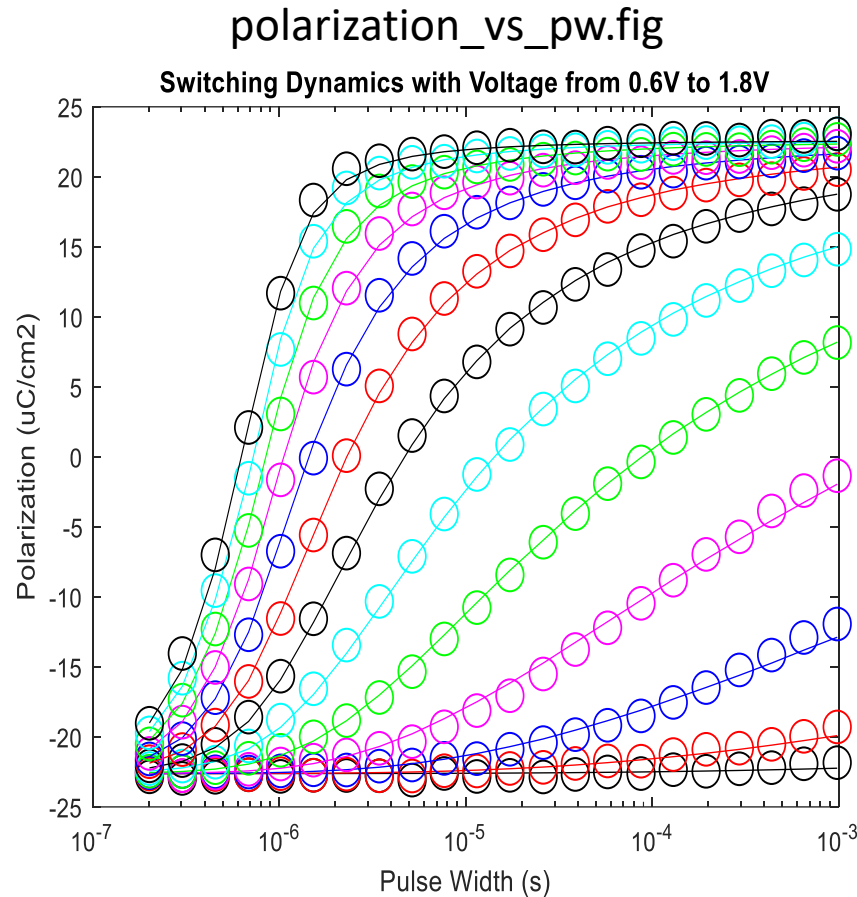
Run the folder

Switching_dynamics_analytical

Run the program

Switched_polarization_calibration

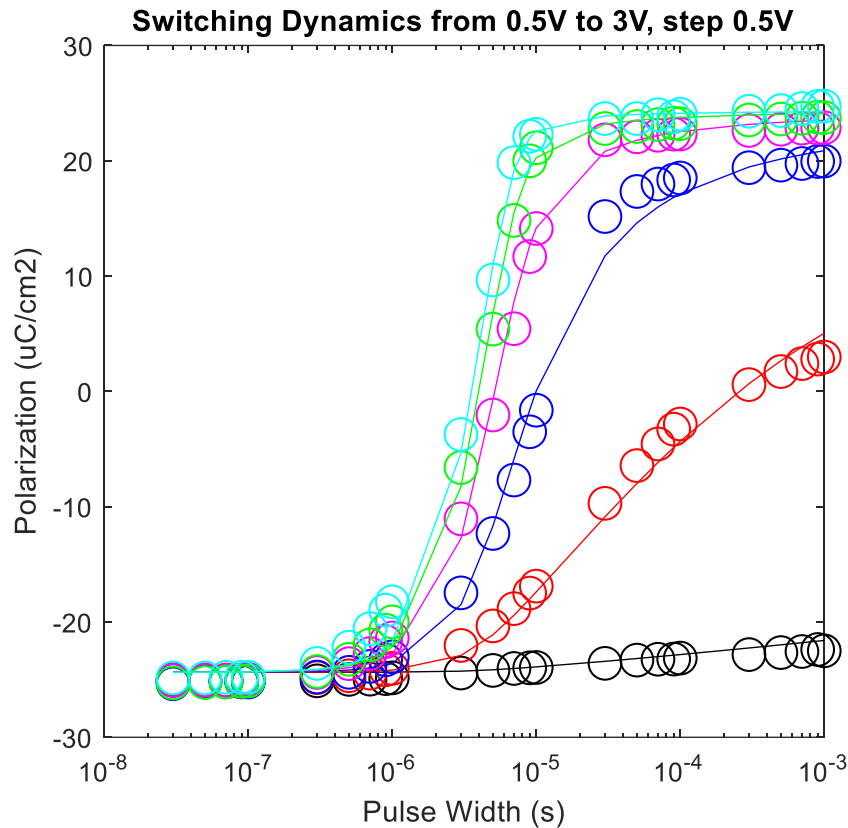
This is literature data, “Monte Carlo Simulation of Switching Dynamics in Polycrystalline Ferroelectric Capacitors”



This is an analytical model, which can only be applied for this switching dynamics case

This is literature data, “Monte Carlo Simulation of Switching Dynamics in Polycrystalline Ferroelectric Capacitors”

polarization_vs_pw_our_own_data.fig



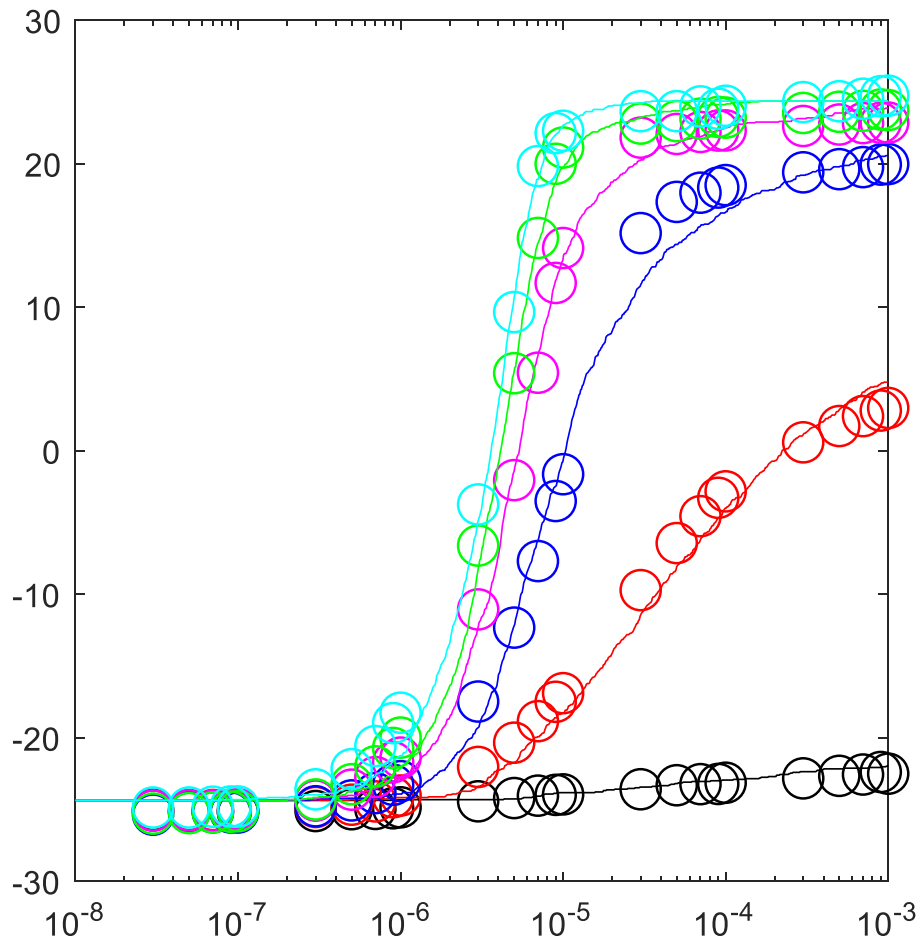
Run the folder

Switching_dynamics_analytical

Run the program

Switched_polarization_calibration

Our own experimental data

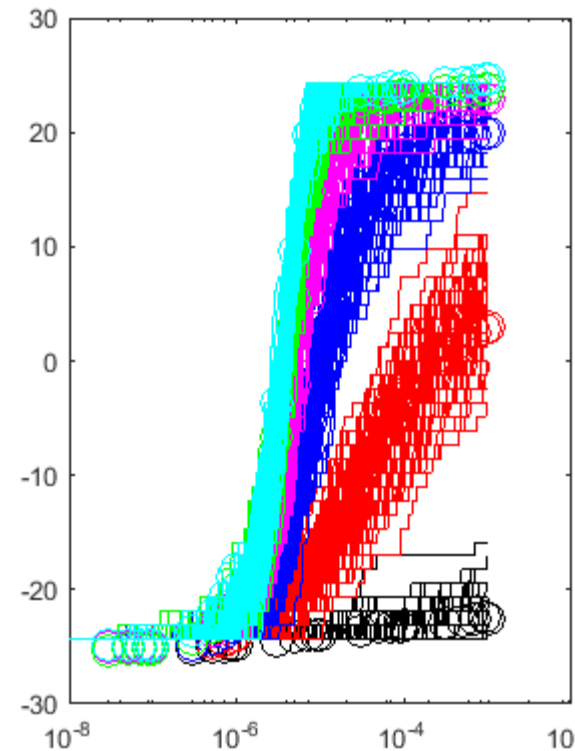
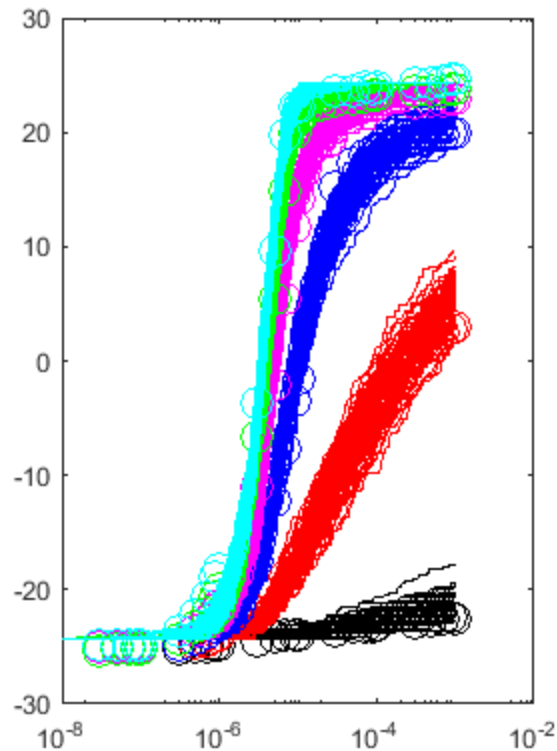
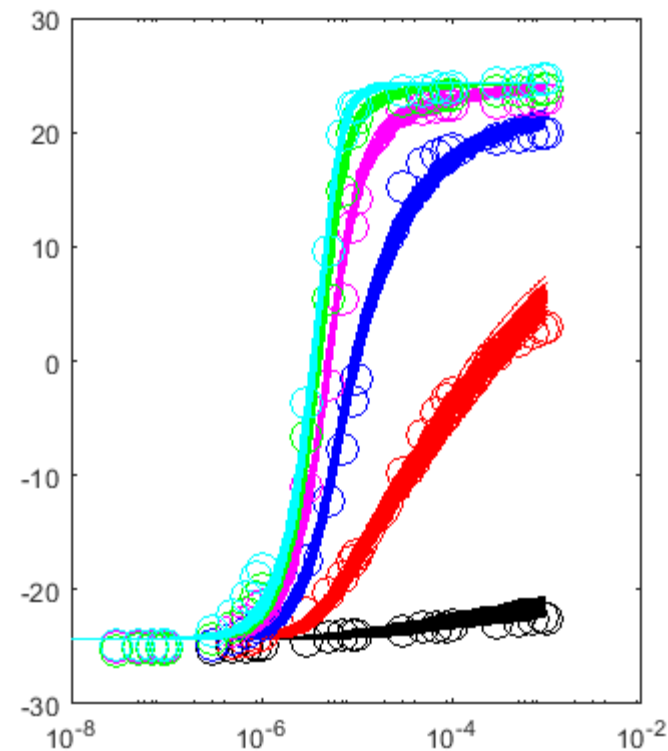


In the folder, "MFM", the code
"MFM_constant_field"

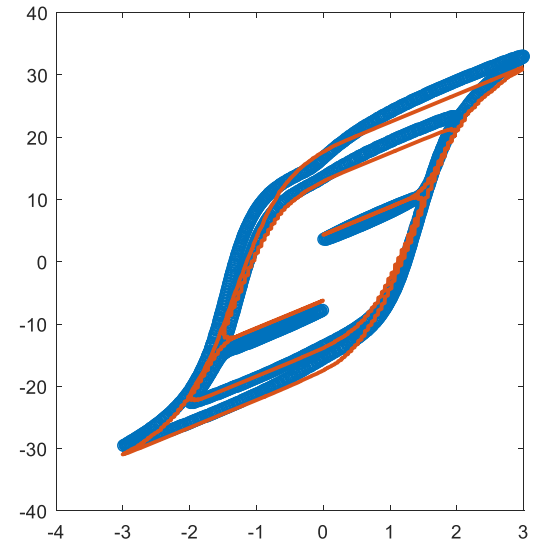
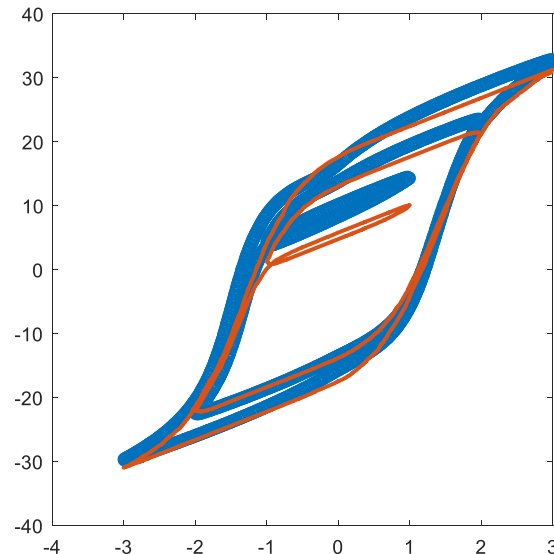
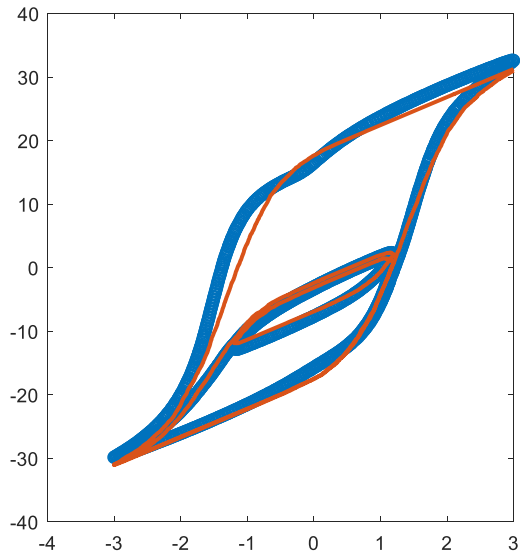
1000 domains

200 domains

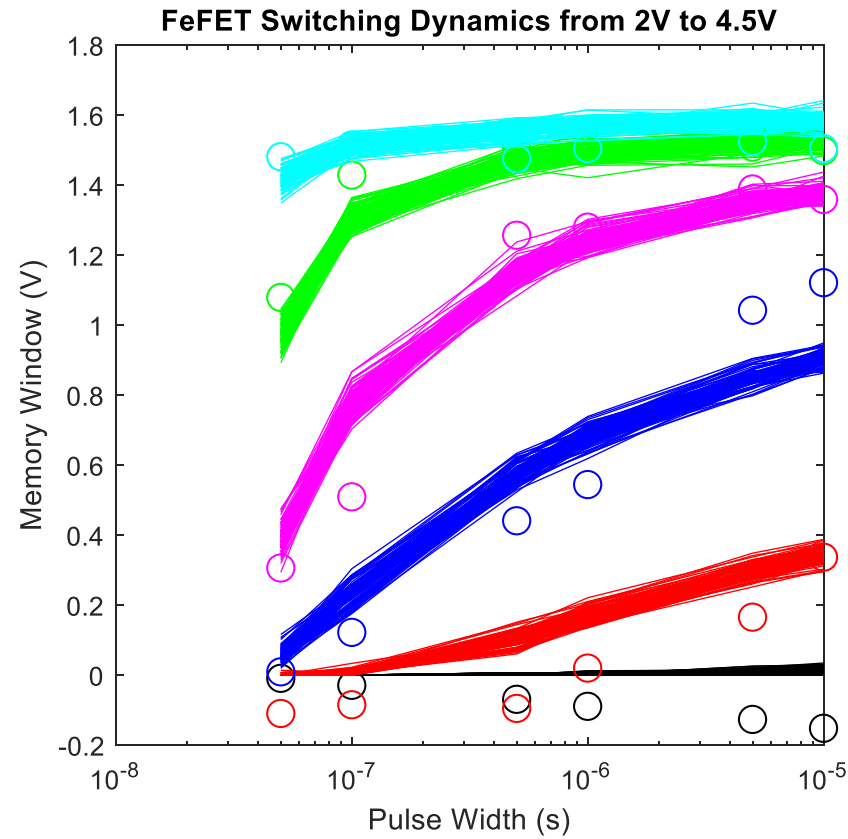
40 domains



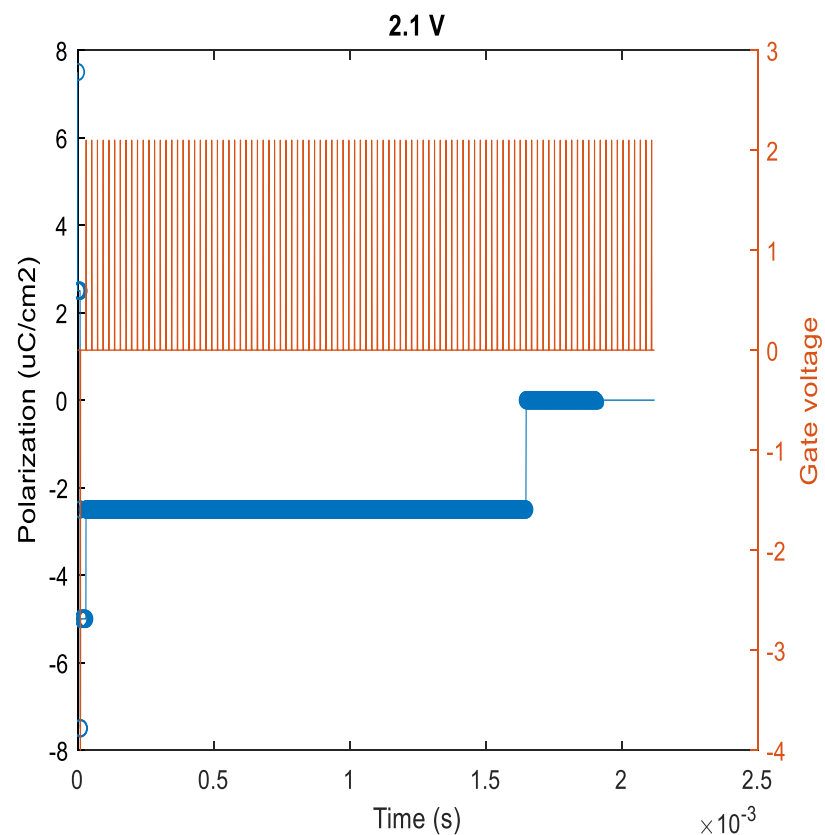
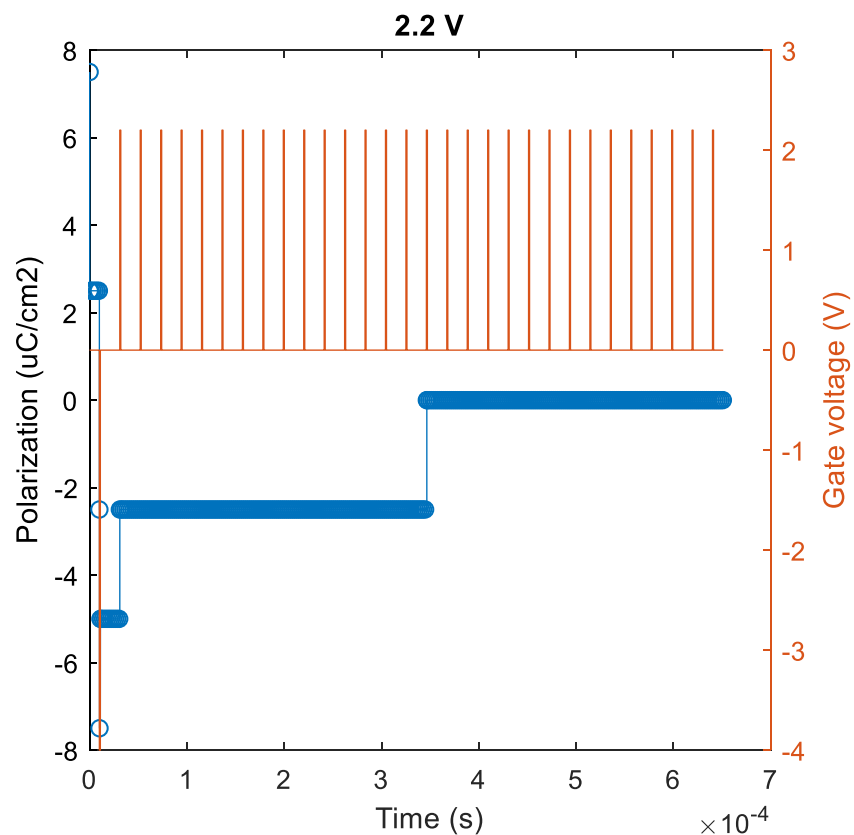
In the folder, "MFM", the code "MFM_constant_field_variation"



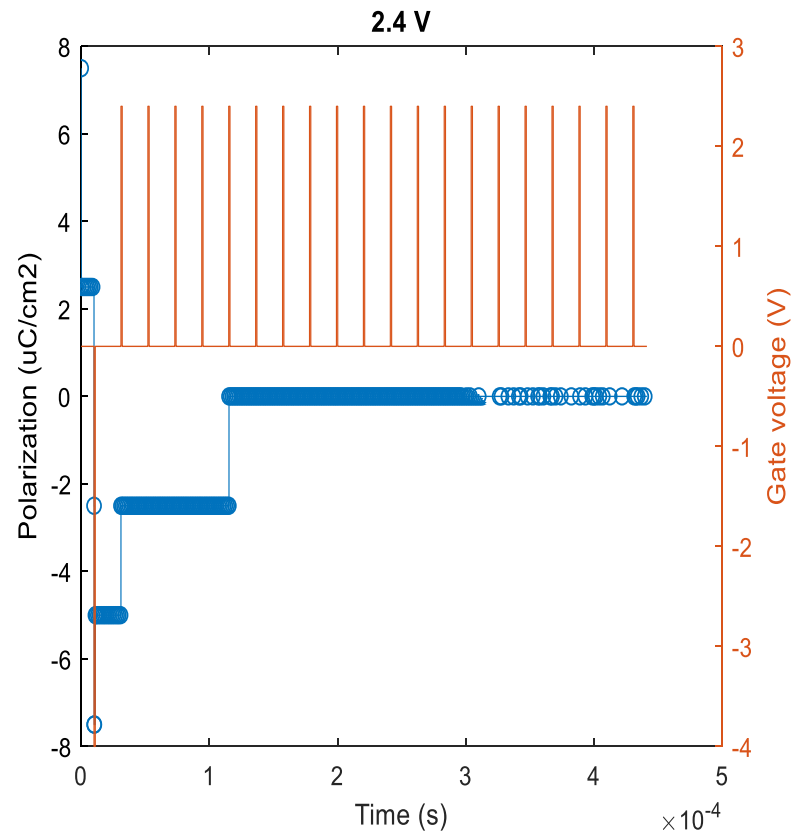
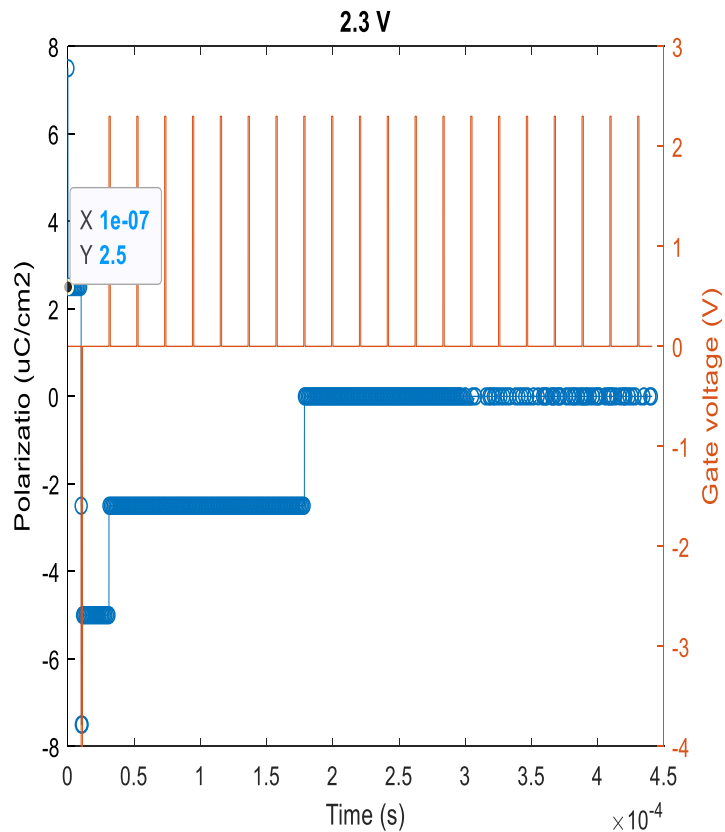
In the folder, “MFM”, the code “MFM_arbitrary_field_calibration”



In the folder, “FeFET”, the code “FeFET_switching_kinetics_calibration”



In the folder, “FeFET”, the code “FeFET_accumulation”



In the folder, “FeFET”, the code “FeFET_accumulation”