# plotFunctions

Project related reusable plots for datasets and results.

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## plotTDKTransferCurves

Plot transfer curves for bridge output voltages of TDK TAS2141.

### plotKMZ60TransferCurves

Plot transfer curves for bridge output voltages of NXP KMZ60.

### plotKMZ60CharField

Plot NXP KMZ60 characterization field and slice around 0, 5, 10 and 15 kA/m.

### plotKMZ60CharDataset

Explore the basic dataset of characterized NXP AMR sensor KMZ60 and plot the dataset content to visualize the base of dipol simulations.

## plotSimulationDatasetCircle

Plot circular path of Hx, Hy and Vcos, Vsin at each sensor array position. Normed to max overall array positions and normed to max at each array position.

# ${\bf plot Simulation Cos Sin Stats}$

Statistical compare plot of Vcos and Vsin output voltages for each sensor array members.

### plotSimulationSubset

Plot subset of angles and sensor array position from training or test dataset.

### plotSingleSimulationAngle

Plot single rotation step of test or training dataset.

### plotSimulationDataset

Plot simulation test or training dataset created by sensor array simulation.

### plotTDKCharField

Plot TDK TAS2141 characterization field and slice around 0, 5, 10 and 15 kA/m.

# plotTDKCharDataset

Explore the basic dataset of characterized TDK TMR Sensor TAS2141 and plot the dataset content to

visualize the base of dipol simulations.

# plotDipoleMagnet

Plot dipole magnet and its approximation as spherical magnet from constants set in config file. Plot manget in rest position.

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