

## plotFunctions

Project related reusable plots for datasets and results.

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### plotTDKTransferCurves

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Plot transfer curves for bridge output voltages of TDK TAS2141.

### plotKMZ60TransferCurves

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Plot transfer curves for bridge output voltages of NXP KMZ60.

### plotKMZ60CharField

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

### plotKMZ60CharDataset

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

### plotSimulationDatasetCircle

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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.

### plotSimulationCosSinStats

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

### plotSimulationSubset

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

### plotSingleSimulationAngle

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Plot single rotation step of test or training dataset.

### **plotSimulationDataset**

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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**

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Explore the basic dataset of characterized TDK TMR Sensor TAS2141 and plot the dataset content to visualize the base of dipol simulations.

### **plotDipoleMagnet**

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

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