fig = p outAlig aligned print (print (<pre>calculating averaged train (stimuli aligned by Inward-Peak), for further information see funct rell#1 rese('all') relt.figure(figsize=(16,8)) relt.figure(figsize=(1</pre>
setInterplotObj Aligned Rows: 1 Columns Cell_5	ervalAlignedArraySweep(arraySweep, alignedArraySweep, 0.0006) ectsArray(alignedArraySweep, 0, 1, 0, alignedArraySweep.shape[1]) Array : 20 getting results, for further information see functions in cell#1 ag Inward-Peak to t=0 before getting the results (Inward-Peak-/Outward-Peak-amplitudes, time be
een peasetLowZse	
Cell#7 Each .t The num Analyzi Unavera Average The dat tegorie	creating .txt-files for further analysis and plotting in Igor ext-file contains a table, columns are seperated by tabulator aber in each filename refers to the number of the stimulus in the train. eng trains containing 20 stimuli will result in 20 txt-files. eged-files, contain rare data (each stimulus of the train) ed-files, contain averaged data ea (actual current values, fitted current values, peak-values) is furthermore split into three
Data[follwo Example n 5 col Fit[Example 8 colu Peak[tains t	.]-files contain the time values in the first column and the current value of each train in the ping columns. e: If 4 trains are analyzed the arraySweep contains 4 rows. The Data[]-file is going to comtains, one for time values and 4 more for the values from the trains.]-files contain the fitted time and current values. e: If 4 trains are analyzed the arraySweep contains 4 rows. The Fit[]-fule is going to contains.
<pre>if not os. #deleti for roo for def mak</pre>	<pre>ing Data folder, if not existent os.path.exists('Data'): makedirs('Data') ing all files in data folder ot, dirs, files in os.walk('Data'): file in files: os.remove(os.path.join(root, file)) cetxtFilesArray(arraySweep, name): column in range(0, arraySweep.shape[1]): listLowIndex = [] columnSweep = arraySweep[:,column] for AP in columnSweep: listLowIndex.append(int(np.argwhere(AP.Xcoord == AP.Datapoints[0][0])))</pre>
w)	<pre>listLowIndex.append(int(np.argwhere(AP.Xcoord == AP.Datapoints[0][0]))) #print (int(np.argwhere(AP.Xcoord == AP.Datapoints[0][0]))) #print (AP.Acoord[int(np.argwhere(AP.Xcoord == AP.Datapoints[0][0]))]) IndexMinLow = min(listLowIndex) IndexMaxLow = max(listLowIndex) DataTxtArray = [] FitTxtArray = [] PeaksTxtArray = [] for AP in columnSweep: startWindow = int(np.argwhere(AP.Xcoord == AP.Datapoints[0][0]))-IndexMinLow endWindow = int(np.argwhere(AP.Xcoord == AP.Datapoints[0][0]))+(len(AP.Xcoord)-1-IndexMax</pre>
ints[1]	<pre>DataTxtArray.append(AP.Acoord[startWindow:\</pre>
	<pre>DataTxtArray = np.asarray(DataTxtArray) DataTxtArray = DataTxtArray.transpose() FitTxtArray = np.asarray(FitTxtArray) FitTxtArray = FitTxtArray.transpose() PeaksTxtArray = np.asarray(PeaksTxtArray) #print (column+1) #print (int(np.argwhere(DataTxTArray[:,0] == 0))) #for column in range (1, DataTxtArray.shape[1]): # print (int(np.argwhere(DataTxTArray[:,column] ==))) np.savetxt('Data/Data%s_%d.txt'%(name, column+1), DataTxtArray, delimiter='\t') np.savetxt('Data/Fit%s_%d.txt'%(name, column+1), FitTxtArray, delimiter='\t') np.savetxt('Data/Peaks%s_%d.txt'%(name, column+1), PeaksTxtArray, delimiter='\t')</pre>
	FilesArray(arraySweep, 'UnaveragedAP') FilesArray(alignedArraySweep, 'AveragedAP')