Thesis Title: On the Reconstruction of 1D Signal Transform Phase or Magnitude w Signal Reconstruction		Date: July 22,2009
Student Name: Mojtaba Soltanalian	Abstract:	
Student Number: 84104385	For the past couple of decades, reconstruction of the signals solely from the phase or magnitude of their Fourier	
Program of Study: B.Sc.	Transform has been the topic of extensive research works. It is known that, unlike	
Field of Study: Communication	multidimensional signals, the reconstruction of one dimensional signals from their Fourier	
Thesis Advisor: Prof. Marvasti	phase or magnitude is faced with an inherent dilemma. In this project, we will	
Thesis Co-Advisor	focus on the reconstruction of one dimensional sparse signals. The	
Thesis Consultant:	reconstruction of such dependent on the spa	n signals is very
Second Student:	particular, we will prese reconstruct a specific ty	ent a novel idea to
Keywords:	which we call Time D	
Sparse signal, Phase and	(TDM) signals. We show that such signals	
magnitude of Fourier transform,	can be "uniquely" reconstructed from their	
Signal Reconstruction, 1D-2D	Fourier Phase.	
DFT Transformation, TDM signal		