Figures

**Figure 1:** A two-dimensional toy example testing the atom identify ability of K-SVD algorithm for two different

![Graph](image1.png)

**Figure 2:** The evolution of $\text{RMSE}$ (a) and the number of successfully detected atoms (NSDA) (b) with various $\beta$. The target $\text{RMSE}$ is 0.1063.

![Graph](image2.png)