



Figure 2: (a) A sparse vector  $\mathbf{s}$  lies on a  $K$ -dimensional hyperplane aligned with the coordinate axes in  $\mathbb{R}^N$  and thus close to the axes. (b) Compressive sensing recovery via  $\ell_2$  minimization does not find the correct sparse solution  $\mathbf{s}$  on the translated nullspace (green hyperplane) but rather the non-sparse vector  $\hat{\mathbf{s}}$ . (c) With enough measurements, recovery via  $\ell_1$  minimization does find the correct sparse solution  $\mathbf{s}$ .