Ex.	\mathcal{A}	$ \mathcal{A} $	dim.	$LMO_X(g)$
L1-ball	$\{\pm e_i\}$	2d	d	$\pm e_i, i = \arg\max_i g_i $
Simplex	$\{e_i\}$	d	d	$e_i, i = \arg\min_i g_i$
Spectahedron	$\{xx^\top, \ x\ = 1\}$	∞	d^2	$\arg\min_{\ x\ =1} x^{\top} G x$
Norms	$\{x, \ x\ \le 1\}$	∞	d	$\arg\min_{\ s\ \leq 1}\langle s,g\rangle$
Nuclear norm	$\{Y, \ Y\ _* \le 1\}$	∞	d^2	