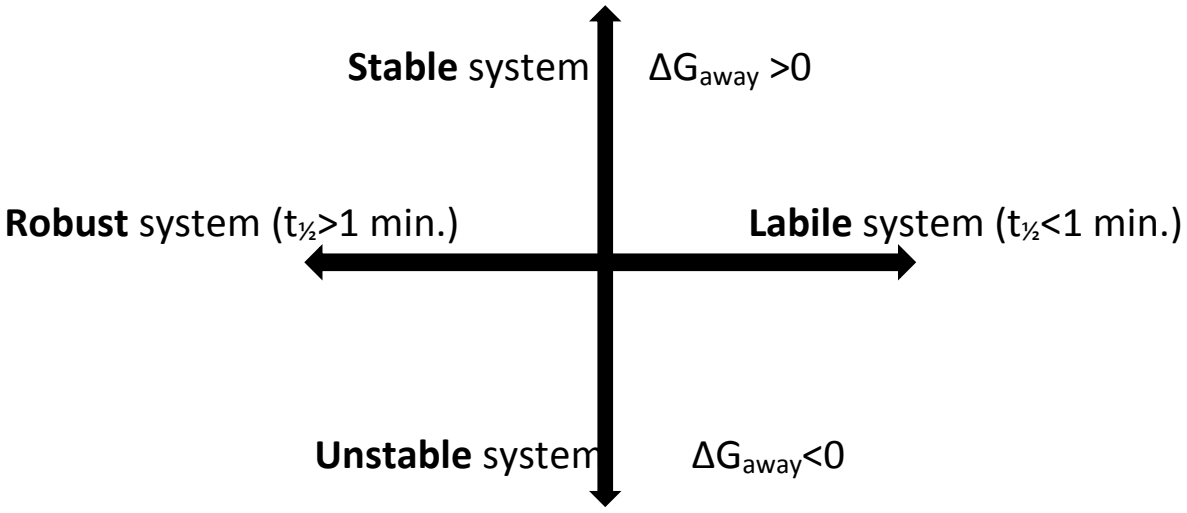
Thermodynamic and kinetic “stability”



Reaction rates; numbers

Typical rates of substitution of water on metal ions

11 > log(k·s) > 8	**8 > log(k·s) > 4**	**4 > log(k·s) > 0**	**-3 > log(k·s) > -6**
Cs^{+}, K^{+}, Na^{+}, Li^{+}.			
Ba^{2+}, Ca^{2+}	**Mg^{2+}**	**Be^{2+}**	
	In^{3+}	**Ga^{3+}, Al^{3+}**	
La^{3+}	**Sc^{3+} Y^{3+}**		
Sm^{3+} Ce^{3+}	**Lu^{3+} Dy^{3+}**		
Cr^{2+} Cu^{2+}	**Mn^{2+},Fe^{2+} Co^{2+}**	**Ni^{2+} V^{2+}**	**Cr^{3+}**
Hg^{2+} Cd^{2+}	**Zn^{2+}**		**Pt^{2+} , Co^{3+}-Ir^{3+}**