



An energy / potential is called **submodular**
iff for every pair of variables :

$$E(0, 0, \bar{\mathbf{x}}_{ij}) + E(1, 1, \bar{\mathbf{x}}_{ij}) \leq E(0, 1, \bar{\mathbf{x}}_{ij}) + E(1, 0, \bar{\mathbf{x}}_{ij})$$