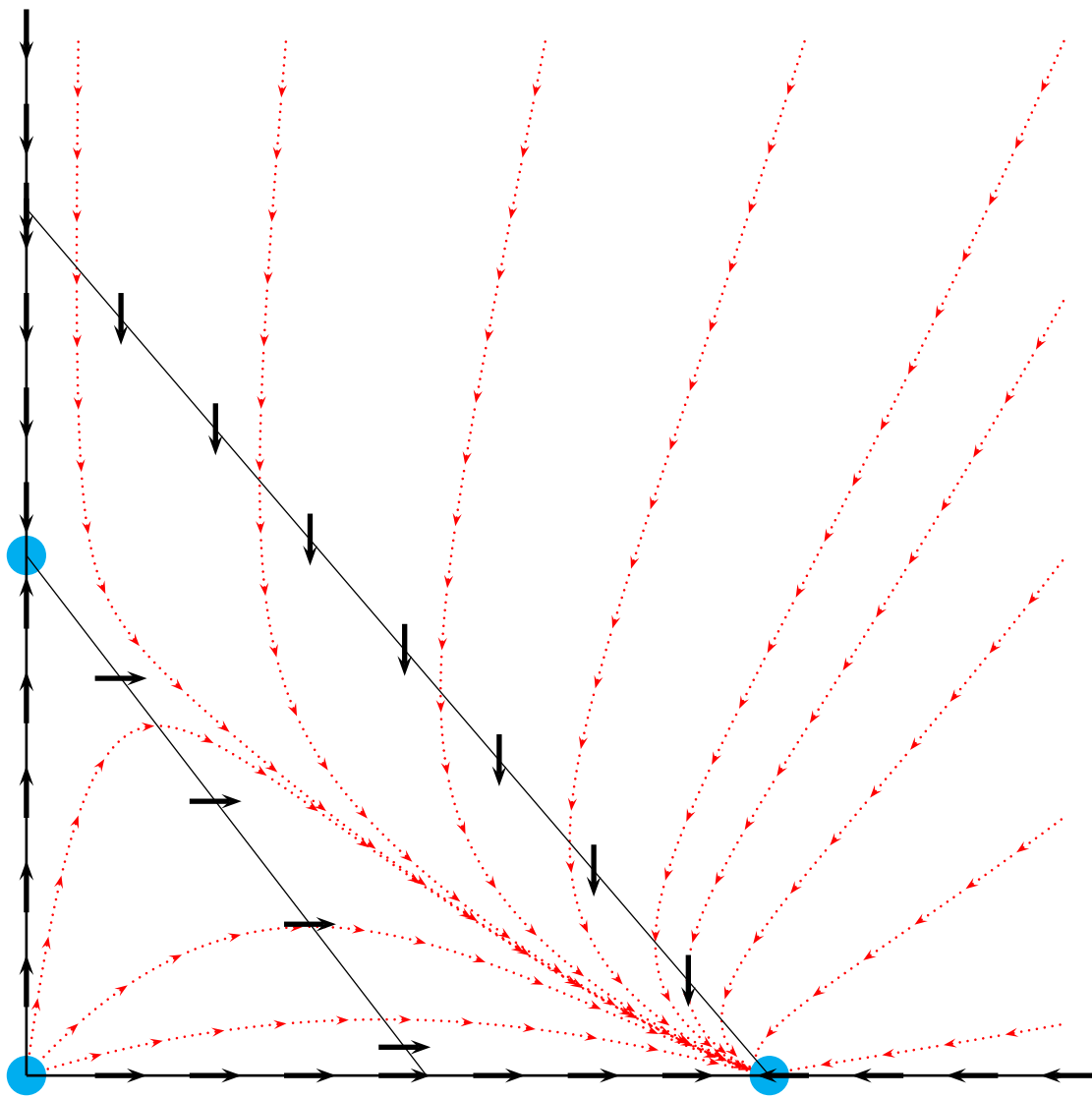


Math 142-2, Handout

Phase planes for competition cases

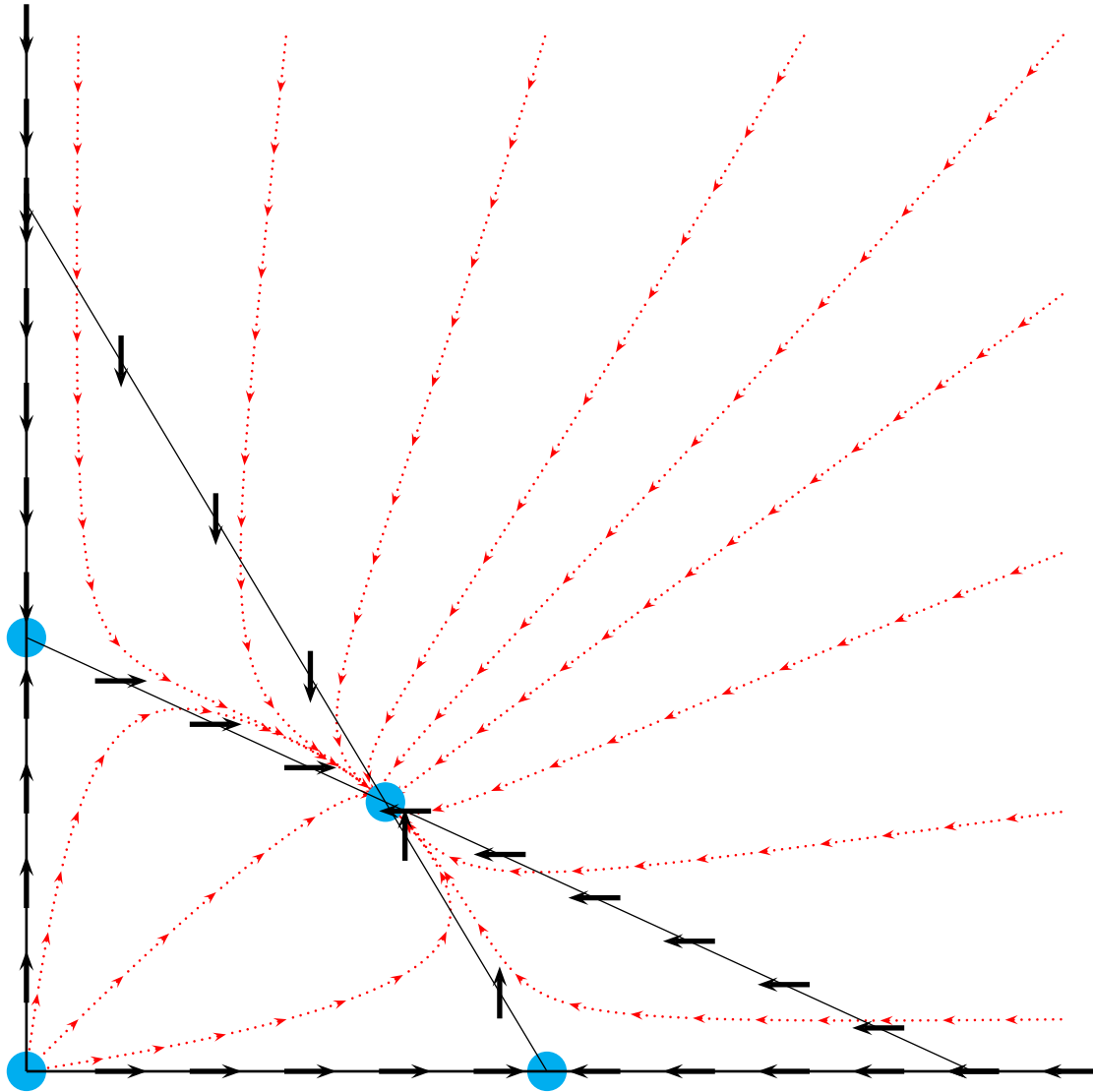
April 23, 2014

Case 1: $\frac{c}{d} < \frac{a}{k}, \frac{c}{\sigma} < \frac{a}{b}$



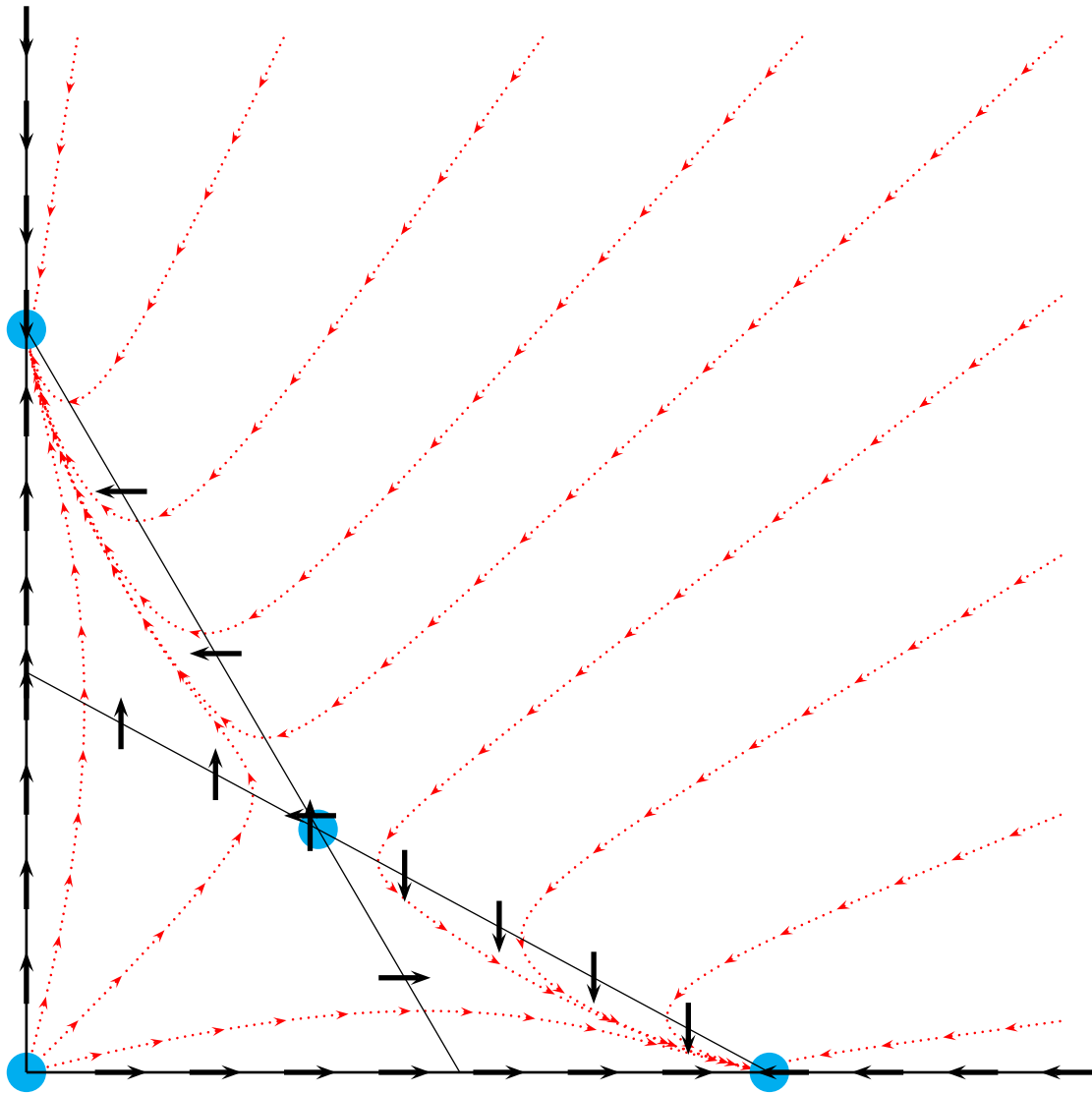
Case 2: $\frac{c}{d} < \frac{a}{k}, \frac{c}{\sigma} > \frac{a}{b}$

Note that the criteria for case 2 imply that it is **weakly** competitive.



Case 3: $\frac{c}{d} > \frac{a}{k}, \frac{c}{\sigma} < \frac{a}{b}$

Note that the criteria for case 3 imply that it is **strongly** competitive.



Case 4: $\frac{c}{d} > \frac{a}{k}, \frac{c}{\sigma} > \frac{a}{b}$

