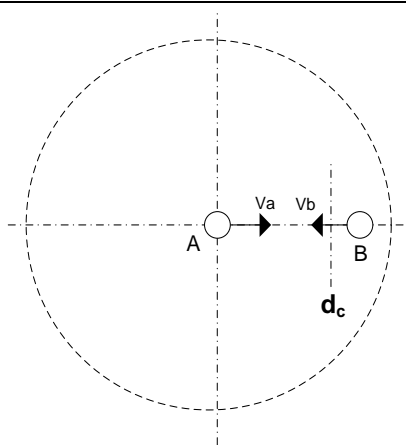


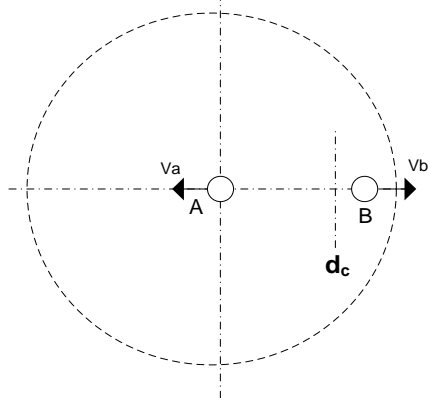
Case 1: Nodes moving away
 $|V_a| - |V_b| \gg V_l$ or $|V_b| - |V_a| \gg V_l$

$$d_{ab} > d_c$$



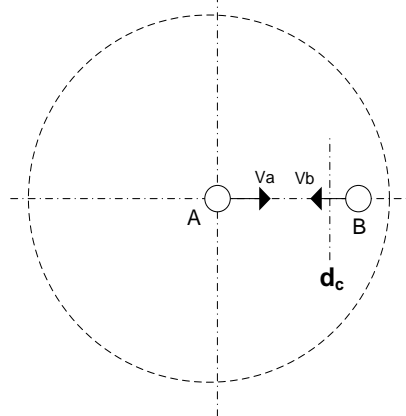
Case 2: Nodes moving toward
 $|V_a| - |V_b| \gg V_l$ or $|V_b| - |V_a| \gg V_l$

$$d_{ab} > d_c$$



Case 3: Nodes moving away
 $|V_a| - |V_b| < V_l$ or $|V_b| - |V_a| < V_l$

$$d_{ab} > d_c$$



Case 4: Nodes moving toward
 $|V_a| - |V_b| < V_l$ or $|V_b| - |V_a| < V_l$

$$d_{ab} > d_c$$