$Cross : (n_1, n_2) < (n_1, n_3)$
$Auxiliary : (n_1, n_2) < (n_1, n_3)$

$Cross : (n_3, n_1) = (n_3, n_4)$
$Auxiliary : (n_3, n_1) > (n_3, n_4)$

$Cross : (n_2, n_1) > (n_2, n_3)$
$Auxiliary : (n_2, n_1) = (n_2, n_3)$

n_1 n_2 n_3 n_4

$Main\ Community : n_1, n_2 ; n_3, n_4$
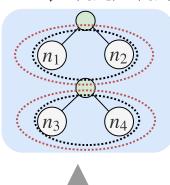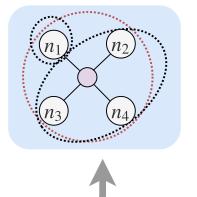
⬤ Cross Graph Community

⬤ Single Graph Community
(Auxiliary or Main Graph)

⬤
⬤ ⎫
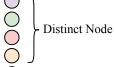⬤ ⎬ Distinct Node
⬤ ⎭

⬤ Shared Node