

## CHANGE OF VARIABLES.

## THE GAME IN THE STANDARD FORM

$$z_1 = x_1 - y_1,$$

$$z_{2k+1} = y_1,$$

$$z_2 = x_2 - y_2,$$

$$z_{2k+2} = y_2,$$

$$z_3 = \dot{x}_1,$$

$$z_{2k+3} = \dot{y}_1,$$

$$z_4 = \dot{x}_2,$$

$$z_{2k+4} = \dot{y}_2,$$

.....

.....

$$z_{2k-1} = x_1^{(k-1)},$$

$$z_{2(k+s)-1} = y_1^{(s-1)},$$

$$z_{2k} = x_2^{(k-1)},$$

$$z_{2(k+s)} = y_2^{(s-1)}.$$

$$\dot{z} = Az + Bu + Cv, \quad u \in P, v \in Q,$$

$$\varphi(z(T)) = \sqrt{z_1^2(T) + z_2^2(T)}$$