**??**
$m\mathbf{BEH}^m_{Ident}\mathbf{BEH}^m_{Obs}mkk\mathbf{BEH}^m_{Ident}\mathbf{BEH}^m_{Obs}$
**???**$I/OI/O$
$I/O$
**1:**
$rs$
$I/O$

$$\Sigma = (\gamma_1, ..., \gamma_p)$$

(1)
$\gamma_i =$
$(u_i(1), u_i(2), ..., u_i(|u_i|))$
$u_i(j)$
$iI/Ouju =$
$(I_1, ..., I_r, O_1, ..., O_s) =$
$(IO_1, ...IO_m)$
$m =$
$r+$
$s$
$I/Outnequt+$
1
$I/OI/O$
**2:**
$I/Oq$

$$L^q_{Obs} = \bigcup_{\gamma_i \in \Sigma} \Big( \bigcup_{t=1}^{|\gamma_i|-q+1} (u_i(t), u_i(t+1), ..., u_i(t+q-1)) \Big)$$

$n$

$$\mathbf{BHE}^n_{Obs} = \bigcup_{i=1}^{n} L^i_{Obs}$$

(2)
$m\mathbf{BEH}^m_{Ident}m$
$\mathbf{BEH}^m_{Obs}m$
**3:**
$NDAAO = (X, \Omega, f_{nd}, \lambda, x_0)$
$X =$
$x_0, ..., x_{|x|-1}$
$\Omega =$
$\omega_1, ..., \omega_{|\omega|}$
$f_{nd} :$
$X \rightarrow$
$2^X$
$\lambda :$
$X \rightarrow$
$\Omega$
$x_0$
$G =$
$(V, E)Gf_{nd}$

$$E(G) = \big\{(x_i, x_j) \in X \times X : x_j \in f_{nd}(x_i)\big\}$$

**??**
$_e xample.pngNDAAO$
$x_in$ **4:**

$$W^n_{x_i} = \big\{w \in \Omega^n | w = \big(\lambda(x(1), ..., \lambda(x(n)))\big) : [\exists\big(x(1), ..., x(n)\big) : x(1) = x_i \in X, and\ 1 \leq t \leq n-1, x(t+1) \in f_{nd}(x(t))]\big\}$$

(3)
$n$

$$W^n(NDAAO) = \bigcup_{x_i \in X} W^n_{x_i}$$

(4)
$n$

$$\mathbf{BEH}^n_{Ident} = \bigcup_{p=1}^{n} W^p(NDAAO)$$

(5)
**5:**$\varepsilon(j)\omega(j)$
$\omega(j+$
$1)$
$\varepsilon =$
$\omega(j+$
$1)-$
$\omega(j)$
$I(\varepsilon(j))$
$I(j)$
$I(j+$
$1)O(\varepsilon(j))$
$_m$