1 Prelimimary definitions

Definition 1 (Enact Rule)**.** *An enact rule is a pair* (y, x) *where (i)* y *is a logical formula and* x *is an expected enactment effect, expressed as an identifier followed by* $n \geq 0$ *arguments.*

Definition 2 (Enact Specificaton)**.** *An enact specification* $\mathcal{E}$ *is a set of enact rules.*

Definition 3 (Institutional state)**.** *The institutional state* I *is a set of facts representing properties of all the institutional components of the system (constitutive rules, norms, sanctions, etc.).*

It is assumed that (i) the term y of an enact rule (x, y) is evaluated with respect to a representation of I; (ii) this representation is allways consistent; (iii) if $i \in I$, then $\{i\}' \cup I = I \rightarrow i' = i$.

2 Enactment dynamics

$$\frac{\exists_{(y,x)\in\mathcal{E}} I \models y\theta \quad x\theta \notin E}{E \longrightarrow E \cup x\theta} \tag{1}$$

Informally, if a formula y, under a substitution θ, is true with respect the current institutional state, then the current enact effects include the x, under θ.

$$\frac{\exists_{(y,x)\in\mathcal{E}} x\theta \in E \wedge I \not\models y\theta}{E \longrightarrow E \setminus x\theta} \tag{2}$$