

## State Type: *atis* **Dispositional Behavior**

(State type is part of the metatheory and describes configurations and properties that characterize a state of that type.)

**Dispositional behavior**,  $\mathcal{D}\mathcal{B}(\mathcal{S})$ , =<sub>df</sub> A sequence of similar system states.

$$\mathcal{D}\mathcal{B}(\mathcal{S}) =_{df} (\mathcal{S}_1, \mathcal{S}_2, \dots, \mathcal{S}_n) \mid \mathcal{M}(\mathcal{S}_1, \mathcal{S}_2, \dots, \mathcal{S}_n)$$

**Dispositional behavior** of a system is a sequence of system states that are homomorphic.

**Examples:** Manufacturing production lines exhibit similar system states from day-to-day in order to produce identical products. A school system strives to maintain consistent instructional procedures in order to assure instructional results. Teachers will work from lesson plans in order to maintain similar system states from one class to the next.