Symbol	Definition	Description
$\tilde{h}_{e,i}$	$h_{e,i}/h_{e,i}^{\text{rest}}$	Population mean soma dimensionless electric potential
$\tilde{I}_{ee,ei}$	$I_{ee,ei}\gamma_e/(G_e\exp(1)S^{\max})$	Total $e\to e$, $e\to i$ input from excitatory synapses
$\tilde{I}_{ie,ii}$	$I_{ie,ii}\gamma_i/(G_i\exp(1)S^{\max})$	Total $i\to e$, $i\to i$ input from inhibitory synapses
$\tilde{\phi}_{e,i}$	$\phi_{e,i}/S^{\max}$	Long range (corticocortical) input to *e*,*i* populations
$\tilde{t}$	t/τ	Dimensionless time
$\tilde{x}$	$x/(\tau\tilde{v})$	Dimensionless space

Dynamical variable definitions for the dimensionless SPDEs model. The dimensionless variables (left column) are defined in terms of the dimensional symbols (middle column) found in Table 1 of (Steyn-Ross, Steyn-Ross, Sleigh, & Whiting, 2003). The variables are described in the right column. Subscripts *e* and *i* refer to excitatory and inhibitory. We make the notational simplifications in agreement with the values used in (Steyn-Ross, Steyn-Ross, Sleigh, & Whiting, 2003): $\tau_e=\tau_i=\tau$, $S_e^{\max}=S_i^{\max}=S^{\max}$, and $h_e^{\text{rest}}=h_i^{\text{rest}}=h^{\text{rest}}$.