

**Lemma.** ?? is well formed, in the sense that

$$\mathbf{L}\Phi[\langle \mathcal{A}, \text{series}(\mathbf{T}_1, \mathbf{T}_2), \mathbf{v} \rangle] \leq_{\text{DP}} \mathbf{U}\Phi[\langle \mathcal{A}, \text{series}(\mathbf{T}_1, \mathbf{T}_2), \mathbf{v} \rangle],$$

$$\mathbf{L}\Phi[\langle \mathcal{A}, \text{par}(\mathbf{T}_1, \mathbf{T}_2), \mathbf{v} \rangle] \leq_{\text{DP}} \mathbf{U}\Phi[\langle \mathcal{A}, \text{par}(\mathbf{T}_1, \mathbf{T}_2), \mathbf{v} \rangle],$$

$$\mathbf{L}\Phi[\langle \mathcal{A}, \text{loop}(\mathbf{T}), \mathbf{v} \rangle] \leq_{\text{DP}} \mathbf{U}\Phi[\langle \mathcal{A}, \text{loop}(\mathbf{T}), \mathbf{v} \rangle].$$