

The Transformation $\underline{\text{trans}}_{\mathcal{P}}$

$\underline{\text{trans}}_{\mathcal{P}}(M) = M \cup \{A' \mid \{A', \neg B'_1, \dots, \neg B'_n\}$ is ground instance
of a clause $\{A, \neg B_1, \dots, \neg B_n\} \in \mathcal{P}$
and $B'_1, \dots, B'_n \in M \}$

Example

{ {motherOf(renate, susanne)},
{married(gerd, reate)},
{fatherOf(F , C), \neg married(F , W), \neg motherOf(W , C)} }.

$\underline{\text{trans}}_{\mathcal{P}}(\emptyset) = \{\text{motherOf(renate, susanne), married(gerd, reate)}\}$

$\underline{\text{trans}}_{\mathcal{P}}^2(\emptyset) = \underline{\text{trans}}_{\mathcal{P}}(\emptyset) \cup \{\text{fatherOf(gerd, susanne)}\}$