

## prf.1 Derivability from a Set of Formulas

nml:prf:prg:sec In ?? we defined a notion of provability of a formula in a system  $\Sigma$ . We now extend this notion to provability in  $\Sigma$  from formulas in a set  $\Gamma$ .

nml:prf:prg:defn:Gamma proves **Definition prf.1.** A formula  $\varphi$  is derivable in a system  $\Sigma$  from a set of formulas  $\Gamma$ , written  $\Gamma \vdash_{\Sigma} \varphi$  if and only if there are  $\psi_1, \dots, \psi_n \in \Gamma$  such that  $\Sigma \vdash \psi_1 \rightarrow (\psi_2 \rightarrow \dots (\psi_n \rightarrow \varphi) \dots)$ .

## Photo Credits

## Bibliography