
Klasyczny liniowy rachunek zdań

Formuły: zmienne zdaniowe; stałe: 1 (jeden), 0 (zero), $\top$ (top) i $\perp$ (dno), oraz wyrażenia postaci: $\varphi \oplus \psi$ (φ plus ψ), $\varphi \wp \psi$ (φ par ψ), $\varphi \& \psi$ (φ wraz z ψ), $\varphi \otimes \psi$ (φ razy ψ), $\varphi \multimap \psi$ (φ implikuje ψ), $\varphi^\perp$ (nie φ), $!\varphi$ (oczywiście φ), $?\varphi$ (być może φ), gdzie φ i ψ są formułami.

Aksjomaty: sekweny postaci $\varphi \vdash \varphi$.

Wymiana:	$\frac{\Gamma, \varphi, \psi, \Delta \vdash \Sigma}{\Gamma, \psi, \varphi, \Delta \vdash \Sigma} (\text{LX})$	$\frac{\Gamma \vdash \Delta, \varphi, \psi, \Sigma}{\Gamma \vdash \Delta, \psi, \varphi, \Sigma} (\text{RX})$		
Wraz &:	$\frac{\Gamma, \varphi \vdash \Sigma}{\Gamma, \varphi \& \psi \vdash \Sigma} (\text{L}\&)$	$\frac{\Gamma, \psi \vdash \Sigma}{\Gamma, \varphi \& \psi \vdash \Sigma} (\text{L}\&)$	$\frac{\Gamma \vdash \varphi, \Sigma \quad \Gamma \vdash \psi, \Sigma}{\Gamma \vdash \varphi \& \psi, \Sigma} (\text{R}\&)$	
Tensor $\otimes$:	$\frac{\Gamma, \varphi, \psi \vdash \Sigma}{\Gamma, \varphi \otimes \psi \vdash \Sigma} (\text{L}\otimes)$	$\frac{\Gamma \vdash \varphi, \Sigma \quad \Delta \vdash \psi, \Pi}{\Gamma, \Delta \vdash \varphi \otimes \psi, \Sigma, \Pi} (\text{R}\otimes)$		
Plus $\oplus$:	$\frac{\Gamma, \varphi \vdash \Sigma \quad \Gamma, \psi \vdash \Sigma}{\Gamma, \varphi \oplus \psi \vdash \Sigma} (\text{L}\oplus)$	$\frac{\Gamma \vdash \varphi, \Sigma}{\Gamma \vdash \varphi \oplus \psi, \Sigma} (\text{R}\oplus)$	$\frac{\Gamma \vdash \psi, \Sigma}{\Gamma \vdash \varphi \oplus \psi, \Sigma}$	
Par $\wp$:	$\frac{\Gamma, \varphi \vdash \Sigma \quad \Delta, \psi \vdash \Pi}{\Gamma, \Delta, \varphi \wp \psi \vdash \Sigma, \Pi} (\text{L}\wp)$	$\frac{\Gamma \vdash \varphi, \psi, \Sigma}{\Gamma \vdash \varphi \wp \psi, \Sigma} (\text{R}\wp)$		
Implikacja:	$\frac{\Gamma \vdash \varphi, \Sigma \quad \Delta, \psi \vdash \Pi}{\Gamma, \Delta, \varphi \multimap \psi \vdash \Sigma, \Pi} (\text{L}\multimap)$	$\frac{\Gamma, \varphi \vdash \psi, \Sigma}{\Gamma \vdash \varphi \multimap \psi, \Sigma} (\text{R}\multimap)$		
Negacja:	$\frac{\Gamma \vdash \varphi, \Sigma}{\Gamma, \varphi^\perp \vdash \Sigma} (\text{L}^\perp)$	$\frac{\Gamma, \varphi \vdash \Sigma}{\Gamma \vdash \varphi^\perp, \Sigma} (\text{R}^\perp)$		
Jedynka:	$\frac{\Gamma \vdash \Sigma}{\Gamma, 1 \vdash \Sigma} (\text{L1})$	$\vdash 1 (\text{R1})$		
Dno:	$\perp \vdash \quad (\text{L}\perp)$	$\frac{\Gamma \vdash \Sigma}{\Gamma \vdash \Sigma, \perp} (\text{R}\perp)$		
Zero i Top:	$\Gamma, 0 \vdash \Sigma (\text{L0})$	$\Gamma \vdash \top, \Sigma (\text{R}\top)$	(nie ma $\text{R}0$ or $\text{L}\top$)	
Oczywiście:	$\frac{\Gamma \vdash \Sigma}{\Gamma, !\varphi \vdash \Sigma} (\text{O} !)$	$\frac{\Gamma, \varphi \vdash \Sigma}{\Gamma, !\varphi \vdash \Sigma} (\text{L} !)$	$\frac{!\Gamma \vdash \varphi, ?\Sigma}{!\Gamma \vdash !\varphi, ?\Sigma} (\text{R} !)$	$\frac{\Gamma, !\varphi, !\varphi \vdash \Sigma}{\Gamma, !\varphi \vdash \Sigma} (\text{S} !)$
Być może:	$\frac{\Gamma \vdash \Sigma}{\Gamma \vdash ?\varphi, \Sigma} (\text{O} ?)$	$\frac{\Gamma \vdash \varphi, \Sigma}{\Gamma \vdash ?\varphi, \Sigma} (\text{R} ?)$	$\frac{!\Gamma, \varphi \vdash ?\Sigma}{!\Gamma, ?\varphi \vdash ?\Sigma} (\text{L} ?)$	$\frac{\Gamma \vdash ?\varphi, ?\varphi, \Sigma}{\Gamma \vdash ?\varphi, \Sigma} (\text{S} ?)$
Cięcie:	$\frac{\Gamma \vdash \varphi, \Sigma \quad \Delta, \varphi \vdash \Pi}{\Gamma, \Delta \vdash \Sigma, \Pi} (\text{Cut})$			

Wariant intuicjonistyczny: Sekweny są tylko postaci $\Gamma \vdash \varphi$, bez $\wp, ?, \perp$ ani $\top$.
