

tab.1 Tableaux for Other Logics

mod:tab:mpr:
sec

Example tab.1. We give a closed tableau that shows $\mathbf{S5} \vdash 5$, i.e., $\Box\varphi \rightarrow \Box\Diamond\varphi$.

1.	$1\mathbb{F} \Box\varphi \rightarrow \Box\Diamond\varphi$	Assumption
2.	$1\mathbb{T} \Box\varphi$	$\rightarrow\mathbb{F} 1$
3.	$1\mathbb{F} \Box\Diamond\varphi$	$\rightarrow\mathbb{F} 1$
4.	$1.1\mathbb{F} \Diamond\varphi$	$\Box\mathbb{F} 3$
5.	$1\mathbb{F} \Diamond\varphi$	$4r\Diamond 4$
6.	$1.1\mathbb{F} \varphi$	$\Diamond\mathbb{F} 5$
7.	$1.1\mathbb{T} \varphi$	$\Box\mathbb{T} 2$
	\otimes	

Problem tab.1. Give closed tableaux that show the following:

1. $\mathbf{KT5} \vdash B$;
2. $\mathbf{KT5} \vdash 4$;
3. $\mathbf{KDB4} \vdash T$;
4. $\mathbf{KB4} \vdash 5$;
5. $\mathbf{KB5} \vdash 4$;
6. $\mathbf{KT} \vdash D$.

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Bibliography