



Figure 1: 21 normal modal systems. Arrows indicate proper inclusion.

conditions on R

system	serial	reflexive	incestual	transitive	symmetric	euclidean
K						
KD	•					
KT	(•)	•				
KG			•			
K4				•		
KB			(•)		•	
K5			(•)			•
K4G			•	•		
K45			(•)	•		•
KB4			(•)	(•)	•	•
			(•)	•	•	(•)
KDG	•		•			
KD4	•			•		
KDB	•		(•)		•	
KD5	•		(•)			•
KD4G	•		•	•		
KD45	•		(•)	•		•
KTG	(•)	•	•			
KT4	(•)	•		•		
KTB	(•)	•	(•)		•	
KT4G	(•)	•	•	•		
KT5	(•)	•	(•)	(•)	(•)	•
	(•)	•	(•)	•	•	(•)
	•	(•)	(•)	•	•	(•)
	•	(•)	(•)	(•)	•	•

TABLE 1: The semantic requirements on R for 21 normal modal systems. • = a required property, (•) = property entailed by required properties. KB4 and KT5 are shown with different (equivalent) combinations of required vs. entailed properties.