## On congruence lattices of some lattices

MIROSLAV PLOŠČICA Mathematical Institute, Slovak Academy of Sciences, KOŠICE ploscica@saske.sk

For a class  $\mathcal{K}$  of algebras let Con  $\mathcal{K}$  denote the class of all lattices isomorphic to Con A (the congruence lattice of A) for some  $A \in \mathcal{K}$ . The *critical point* between classes  $\mathcal{K}$  and  $\mathcal{L}$  is the number of compact elements of the smallest lattice in Con  $\mathcal{K} \setminus$  Con  $\mathcal{L}$  (or  $\infty$  if no such lattice exists). We discuss the critical points for some varieties of lattices.