

$$S(X) = \{ \text{Chr}(Y) : Y \subseteq X \} - \{0, 1, \dots, \aleph_0\}$$

I. (a) If  $\lambda \in S(X)'$  ~~is~~ singular, then  
 $\lambda \in S(X)$ .

(b) If  $\lambda \in S(X)$  is singular, then  
 $\lambda \in S(X)'$ .

I. If the existence of a measurable cardinal is consistent then so is the existence of an  $X$  with  $S(X)$  not closed.