

Solved problems in Monk [14]

7: Santos

8: The following were proved by Kurilic [17]:

If $\min\{\mathfrak{a}, \mathfrak{b}\} \leq \omega_1$, then $\mathfrak{a}(A \oplus B) = \min\{\mathfrak{a}(A), \mathfrak{a}(B)\}$.

If A is atomic, then $\mathfrak{a}(A \oplus A) = \mathfrak{a}(A)$.

37 part: Santos

38: Santos

44 part: Santos

45: Santos

46: Santos

48: Santos

49: Malliaris, Shelah

52: Santos

70: Santos

71: Santos

86: Santos

156: campcanhrumir

157: campcanhrumir

158: campcanhrumir

References

Monk [14] **Cardinal invariants on Boolean algebras.**

campcanhrumir Campero-Arena, G; Cancino, J. Hrusak, M.; Miranda-Perea, F. *Incomparable families and maximal trees*. Fundamenta Mathematicae 234 (2016) 73-89.

Malliaris, M.; Shelah, S. *Cofinality spectrum theorems in model theory, set theory, and general topology*. J. Amer. Math. Soc. 29, (2016), 237-297.

Kurilic, M. *The minimal size of infinite maximal antichains in direct products of partial orders*. Order (2017), 34, 235-251.

Santos, M. *Questions on cardinal invariants of Boolean algebras*. Arch. Math. Logic (2023), 947-963.