

**ON SOME IDEALS OF FINITARY INCIDENCE
ALGEBRAS**

MANFRED DUGAS

ABSTRACT. Generalizing a result by R.D. Sorkin, we show that the poset P can be recovered from the finitary incidence algebra $FI(P)$ of P over some field F by algebraic means. Moreover, we will show that the Dedekind–McNeille completion of the poset P can be recovered from the finitary incidence algebra $FI(P)$ of P over some field F by algebraic means as well.