

- CARLOS CALEIRO AND RICARDO GONÇALVES, *Behavioral Algebraization of the  $C_n$  Systems of da Costa*.

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It is well known that the paraconsistent logics  $C_n$  of da Costa fail to be algebraizable [1, 4]. Even so, an algebraic counterpart for them has been proposed in the literature, namely the class of da Costa algebras [2, 3]. Still, the connection between this proposal and  $C_n$  was never established at the light of the theory of algebraization of logics as introduced in [7]. In this work, we propose to use the tools and techniques of the novel theory of Behavioral Abstract Algebraic Logic, as introduced in [5], to study the  $C_n$  systems from an algebraic point of view and ultimately obtain a precise characterization of their relationship to da Costa algebras. As a side-effect, the algebraic nature of its bivaluation semantics [6] is also clarified. This work was partially supported by FCT and EU FEDER, namely via the QuantLog POCI/MAT/55796/2004 and KLog PTDC/MAT/68723/2006 projects of SQIG-IT. The second author was also supported by FCT under the PhD grant SFRH/BD/18345/2004/SV7T.

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