

Sectionally residuated semilattices

JAN KÜHR

Palacky University Olomouc, Czech Republic

kuhr@inf.upol.cz

Sectionally residuated (semi)lattices are (join-semi)lattices with a largest element such that every principal order filter is a carrier of an integral residuated (semi)lattice. These structures generalize integral residuated lattices and are closely connected with certain pseudo BCK-algebras that were recently introduced as a non-commutative extension of BCK-algebras.