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摘要
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Priestley Spaces, Quasi-hyperalgebraic Lattices and Smyth Powerdomains

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Abstract We introduce the concept of quasi-hyperalgebraic lattice and prove that a complete lattice is a Priestley space with respect to the interval topology if and only if it is quasi-hyperalgebraic. Some characterizations of quasi-hyperalgebraic lattices are presented. We also prove that the Smyth powerdomain of a quasi-hyperalgebraic lattice is hyperalgebraic.

Key words Priestley space   quasi-hyperalgebraic lattice   hypercontinuous lattice   hyperalgebraic lattice   Smyth powerdomain

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