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Abstracts of Short Communications and Posters

Section:

2. Algebra

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An expansion of lattice
A lattice L have two operations, $\vee$ (join) and $\wedge$ (meet). $(L, \vee)$ and $(L, \wedge)$ are semilattices, respectively. Then, there are two order relations, $a \leq_\vee b \Leftrightarrow a \vee b = b$ and $a \leq_\wedge b \Leftrightarrow a \wedge b = b$. From the absorption law, the order $\leq_\vee$ is quite reverse order of the order $\leq_\wedge$. Lattice can be considered an expression to the one dimensional reversible situation.
A new three semilattices system with roundabout-absorption law will be presented. The roundabout-absorption law on it is analogous to absorption law on lattice.