

Xu, Kuankuan; Lu, Tao

Some relations between prime inner operators, prime closure operators and connections.

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Summary: Some relations between prime inner operators, prime closure operators and Galois connections have been studied. Some main conclusions about the relations of them are obtained: 1) the sufficient condition for (f, g) to be a Galois connection, when f is a prime inner operator, g is a prime closure operator, is that f and g have the same fixed point sets; 2) under certain conditions, if (f, g) is Galois connection, then gf is a prime closure operator and fg is a prime inner operator.

MSC:

[06A15](#) Galois correspondences, closure operators (in relation to ordered sets)

[54A05](#) Topological spaces and generalizations (closure spaces, etc.)

Keywords:

[prime inner operator](#); [prime closure operator](#); [connection](#)

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