

# Lattice of filters

The lattice  $\mathfrak{F}(A)$  of reverse ordered filters (on some set  $A$ ) is:

- having minimum and maximum  $0^{\mathfrak{F}(A)}$  and  $1^{\mathfrak{F}(A)}$
- atomistic
- complete
- distributive
- co-Brouwerian ( $\mathcal{A} \sqcup \bigcap S = \bigcap \{\mathcal{A} \sqcup \mathcal{X} \mid \mathcal{X} \in S\}$ )

Read more about such lattices and more general posets in my article:

“Filters on Posets and Generalizations”