

Two functors induced by z -ideals and d -ideals of function rings

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Let **CRFrm** be the category of completely regular frames with their homomorphisms, and let **CohFrm** be the category of coherent frames with coherent maps. In this talk I will report on two functors $Z: \mathbf{CRFrm} \rightarrow \mathbf{CohFrm}$ and $D: \mathbf{CRFrm} \rightarrow \mathbf{CohFrm}$ defined, respectively, in terms of z -ideals and d -ideals of the function rings $\mathcal{R}L$. I will mention certain properties (such as skeletality and $*$ -density) which they preserve and reflect. Regarding the functor Z , I will identify morphisms $M \xrightarrow{h} L$ in **CRFrm** for which $Z(h)$ has a left adjoint.

[This talk is based on joint work with Themba Dube]