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Compactifications and uniformities on sigma frames

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Abstract: A bijective correspondence between strong inclusions and compactifications in the setting of σ -frames is presented. The category of uniform σ -frames is defined and a description of the Samuel compactification is given. It is shown that the Samuel compactification of a uniform frame is completely determined by the σ -frame consisting of its uniform cozero part, and consequently, any compactification of any frame is so determined.

Keywords: strong inclusion, compactification, uniform σ -frame, uniform cozero

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