

KMS STATES AND CONTINUOUS ORBIT EQUIVALENCE FOR ULTRAGRAPH SHIFT SPACES WITH SINKS

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Abstract: We extend ultragraph shift spaces and the realization of ultragraph C^* -algebras as partial crossed products to include ultragraphs with sinks (under a mild condition, called (RFUM2), which allows us to dismiss the use of filters) and we describe the associated transformation groupoid. Using these characterizations we study continuous orbit equivalence of ultragraph shift spaces (via groupoids) and KMS and ground states (via partial crossed products).

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Key words: ultragraph C^* -algebras, partial crossed products, groupoids, KMS states, continuous orbit equivalence.