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*Cycline subalgebras of  $k$ -graph  $C^*$ -algebras*

$k$ -graphs are a higher dimensional generalization of directed graphs; directed graphs are naturally identified with 1-graphs. The graph  $C^*$ -algebra of a  $k$ -graph is the universal  $C^*$ -algebra among its all Cuntz-Krieger families. An important subalgebra of a  $k$ -graph  $C^*$ -algebra is its cycline algebra, which plays a vital role in a generalized Cuntz-Krieger uniqueness theorem. In this talk, we will present some new results on the cycline algebra.