

**ALGEBRAIC REFLEXIVITY OF  
DIAMETER-PRESERVING LINEAR BIJECTIONS  
BETWEEN  $C(X)$ -SPACES**

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**Abstract:** We prove that if  $X$  and  $Y$  are first countable compact Hausdorff spaces, then the set of all diameter-preserving linear bijections from  $C(X)$  to  $C(Y)$  is algebraically reflexive.

**2010 Mathematics Subject Classification:** 46B04, 47B38.

**Key words:** algebraic reflexivity, local linear map, diameter-preserving map, weighted composition operator.