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**Douglas Farenick, Mitja Mastnak and Alexey I Popov\***, alexey.popov@uleth.ca. *Isometries of the Toeplitz matrix algebra.*

We study the structure of linear isometries defined on the algebra  $A$  of upper-triangular Toeplitz matrices. We use a range of ideas in algebra, operator theory and linear algebra to show that every linear isometry  $T$  from  $A$  to  $M_n(C)$  is of the form  $T(A)=UAV$  where  $U$  and  $V$  are two unitary matrices. This implies, in particular, that every such an isometry is a complete isometry and that a unital linear isometry  $A \rightarrow M_n(C)$  is necessarily an algebra homomorphism. (Received August 21, 2015)