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Dave Anderson*, Department of Mathematics, 2074 East Hall, 530 Church St, Ann Arbor, MI 48104. *Triality and symmetries of morphisms.*

Harris and Tu considered degeneracy loci for symmetric and skew-symmetric morphisms of vector bundles. Such a morphism gives a map to an isotropic Grassmannian, which is the fixed locus for a duality involution on an ordinary Grassmannian. Here we introduce the analogous problem for morphisms with *triality symmetry*, corresponding to maps into the fixed locus of the triality action on a D_4 Grassmannian, and we give formulas for the associated degeneracy loci. (Received January 22, 2008)