1035-05-1949 **Saad I. El-Zanati*** (Saad@ilstu.edu), **Michael J. plantholt**, **Papa A. Sissokho** and **Lawrence Spence**. *On the existence of a rainbow 1-factor in 1-factorizations of* $K_{rn}^{(r)}$.

Let F be a 1-factorization of the complete uniform hypergraph $G = K_{rn}^{(r)}$ with $r \geq 2$ and $n \geq 3$. We show that there exists a 1-factor of G whose edges belong to n different 1-factors in F. Such a 1-factor is called a *rainbow* 1-factor or an *orthogonal* 1-factor. (Received September 20, 2007)