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Dr. Meenakshi Rana* (mrana@thapar.edu), House No. 40, Type-III, New, Thapar University, Patiala, 147004, India. *Rogers–Ramanujan Type Identities and Restricted k -Color F -Partitions.*

It is seen how F -partitions are helpful in providing the combinatorial meaning to q -series and Rogers–Ramanujan type identities. Andrews studied extensively the two classes of generalized F -partitions. We also can observe that for many q -series identities and Rogers–Ramanujan type identities, there is a bijection between F -partitions and $(n + t)$ -color partitions. Recently $(n + t)$ -color partitions have been extended to split $(n + t)$ -color partitions. So the natural question arises about the bijection of split $(n + t)$ -color partitions to certain class of F -partitions. The purpose of this paper is to establish a bijection between the split $(n + t)$ -color partitions and restricted k -color F -partitions for some generalized basic q -series. They further give rise Rogers-Ramanujan type identities for some particular cases. (Received August 19, 2015)