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*Identities for the generating function of the multiset  $[n\Phi^m]$  for  $m = -1, 1, 2$ ,*

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**Abstract**

Some remarkable identities involving the power series in which the exponents are of form  $[n\alpha]$  with some irrational  $\alpha > 0$  have been obtained. Here we present short proofs for some related identities with  $\alpha = \Phi^m, m = -1, 1, 2$ .