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Arithmetic of a Semigroup of Series in Legendre Functions of the Second Kind

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Abstract: In the framework of D. Kendall's theory of Delphic semigroups, a semigroup of series in Legendre functions of the second kind is studied. The basic factorization theorems are prowed, the classes of infinitely divisible elements and of elements without indecomposable factors are completely described, the density of the class of indecomposable elements is established.

Key Words: D. Kendall's Delphic semigroup, infinitely divisible, indecomposable, Legendre functions.