

Asymptotics of Raynal-Revai coefficients at large hypermomentum

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The Raynal-Revai coefficients are studied as Wigner D-functions of $O(6)$ group generated by kinematical rotation of two reduced Jacobi vectors in six-dimensional three-body space. These coefficients are represented as one-dimensional integrals with kernels equal to double sums of the Clebsh-Gordan coefficients and associated Legendre polynomials. Using this representation we derive the asymptotics of the Raynal-Revai coefficients at large values of the hypermomentum.