

## On a Class of Inner Spherical Monogenics and their Primitives

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**Abstract.** Let for  $k \in \mathbb{N}$  fixed,  $M^+(\mathbb{R}^{m+1}; \mathbb{R} \oplus \bar{e}_0 \mathbb{R}^{0,m}; k)$  denote the class of paravector-valued inner spherical monogenics of degree  $k$  in  $\mathbb{R}^{m+1}$ . Then it is proved that each  $P_k^* \in M^+(\mathbb{R}^{m+1}; \mathbb{R} \oplus \bar{e}_0 \mathbb{R}^{0,m}; k)$  admits a primitive  $P_{k+1}^* \in M^+(\mathbb{R}^{m+1}; \mathbb{R} \oplus \bar{e}_0 \mathbb{R}^{0,m}; k+1)$ , i.e.  $\bar{D}_x P_{k+1}^* = P_k^*$ .

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