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**Abstracts of Short Communications and Posters**

**Section:**

**10. Partial Differential Equations**

1991 MS Classification: 30G35, 31B05, 41A10
Krasnov, Yakov, Bar-Ilan University, Israel
**Symmetries of Cauchy-Riemann-Füter Equation.**
The Cauchy-Riemann-Füter (CRF) equation [1] is a system of first order elliptic partial differential equations in quaternionic space $\mathcal{H}: Df := \partial_{x_0} f + i\partial_{x_1} f + j\partial_{x_2} f + k\partial_{x_3} f = 0$. We build the Lie algebra of all first order partial differential symmetries operators for a CRF equations and show a technique of the symmetry operators for a constructing all their solutions.
Reference: [1] R. Füter, Analytische Funktionen einer Quaternionen Variablen, *Comment Math. Helv.* , 1932, v.4, pp. 9-20.