

# A series expansion of separately $(\alpha, \beta)$ -harmonic function in the unit polydisc

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We define separately  $(\alpha, \beta)$ -harmonic functions in the unit polydisc which satisfy a system of elliptic PDEs. Also, we derive series expansion of such functions. Our result extend earlier results for  $(\alpha, \beta)$ -harmonic functions in the disc and for  $n$ -harmonic functions in  $\mathbb{D}^n$ . This is joint work with Miloš Arsenović and Miodrag Mateljević and this is work in progress.

## References

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