The Dirichlet type problem for complex polyharmonic functions

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In this talk we consider some Dirichlet-type problem for polyharmonic functions where the boundary conditions are given only in the terms of the solution. Here the conditions on the normal derivatives or on the iterated Laplacians of the solution are replaced by the conditions given in terms of values of the solution on rotated spheres.

References

[1] H. Grzebuła, S. Michalik, *A Dirichlet type problem for complex polyharmonic functions*, Acta Math. Hungar., 2017; 153: 216-229.