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On the Poisson Representation of a Function Harmonic in the Upper Half-Plane

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Abstract. New conditions for the validity of the Poisson representation (in usual and generalized form) for a function harmonic in the upper half-plane are obtained. These conditions differ from known ones by weaker growth restrictions inside the half-plane and stronger restrictions on the behavior on the real axis.

Keywords. Compactness, Green function, Nevanlinna formula, Phragmén-Lindelöf Principle, Poisson integral, subharmonic function.

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