Section	11.	Complex	Analysis
Section	I I.	Complex	Analysis

Poster number 642

On the middle-dimension homology group and the Stein property of the quasitoric manifolds

Oksana Znamenskaya, Krasnoyarsk State University, Russia.

ABSTRACT_

Let us define the quasitoric variety as the difference of two algebraic subvarieties in simplicial complex toric variety X. It is investigated the connection between the (n-1)-dimension homology group for the nonsingular hypersurface $V \subset X$ and the n-dimension homology group for the quasitoric manifolds of the form $X \setminus V$. The classic result of Griffiths on the middle-dimension homology group for the complement of the nonsingular hypersurface inn-dimensional projective space is generalized assuming the Stein property of $X \setminus V$. The conditions for the Stein property of $X \setminus V$ are studied.

Keywords: quasitoric manifolds, homology, Stein manifold, hypersurface

Mathematics Subject Classification: 32A

Contact Address: oksana@math.kgu.krasnoyarsk.su