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**Title:** The inequality and its application of algebroid functions on annulus concerning some polynomials

**Author(s):** Hong Yan Xu and Zhao Jun Wu

The main purpose of this paper is to investigate the value distribution of algebroid functions on annulus, and establish the second fundamental theorem of algebroid functions on annulus concerning some polynomials, which is an improvement of the previous results given by Tan. By applying this inequality, we obtain three results of algebroid functions on annulus concerning its derivatives and some polynomials.

**Address:**

Hong Yan Xu  
School of Mathematics  
and Computer Science  
Shangrao Normal University  
Shangrao Jiangxi 334001  
P. R. China

and

Department of Informatics  
and Engineering  
Jingdezhen Ceramic Institute  
Jingdezhen Jiangxi 333403  
P. R. China

**Address:**

Zhao Jun Wu  
School of Mathematics  
and Statistics  
Hubei University of Science  
and Technology  
Xianning 437100  
P. R. China

and

Hubei Key Laboratory of  
Applied Mathematics  
Faculty of Mathematics  
and Statistics  
Hubei University  
Wuhan 430062  
P. R. China