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

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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.

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