

STICLARU, Gabriel, *ALGEBRAIC STATISTICS: SOME APPLICATIONS*

Abstract: A main purpose of this report is to present the connections between Algebra and Statistics, focused on the applications of Algebra in Statistics. We present applications in experimental designs and we exemplify by using the free computer algebra systems SINGULAR and CoCoA.

Keywords: Algebraic Statistics, Gröbner bases, Design of Experiments, Computer Algebra System