



THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

Room 261 ,Ziskind Building
on Wednesday, Dec 23, 2015
at 11:00

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On rings stable under derivations

Abstract:

Let z be an algebraic function of n variables and $A(z)$ the algebra generated by all variables and all partial derivatives of z (of all orders). If z is a polynomial then $A(z)$ is just a polynomial algebra, but when z is not a polynomial then it is not clear what is the structure of this algebra. I'll report on known cases and formulate a conjecture.