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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, 2015at 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.