## On the a-invariant of the Rees Algebra of the ideal of k-products

## Adrián Alcántar CINVESTAV–IPN

We determine the equations of the polyhedral cone generated by the exponent vectors of the monomials defining the Rees algebra of the ideal generated by the square-free monomials of degree k in n variables, the canonical module of the Rees algebra can be expressed in terms of the relative interior of the cone, this would allow us to compute the a-invariant of this algebra.