## 1100-14-215Abdelmalek Abdesselam, Christian Ikenmeyer\* (ciken@math.tamu.edu) and Gordon<br/>Royle. Explicit Formulas for Ottaviani's Invariant of Cubic Threefolds.

We provide explicit combinatorial formulas for Ottaviani's degree 15 invariant which detects cubics in 5 variables that are sums of 7 cubes. Our approach is based on the chromatic properties of certain graphs and relies on computer searches and calculations. (Received February 08, 2014)