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**Lucas David-Roesler\*** ([roesler.lucas@gmail.com](mailto:roesler.lucas@gmail.com)), 101 N. College Avenue, Annville, PA 17003. *The AG-invariant for  $(m + 2)$ -angulations.*

In 2012 Juan Carlos Bustamante and Viviana Gubitosi used Hochschild cohomology to classify all finite dimensional algebras which are derived equivalent to  $m$ -cluster tilted algebras of type  $A$ . In their analysis they also consider an invariant introduced by Avella-Alaminos and Geiss but they do not directly use this invariant because Hochschild cohomology is easier to compute. We will show a method to calculate the invariant of Avella-Alaminos and Geiss when the algebra is constructed from an  $(m + 2)$ -angulation of a surface with marked points in the boundary. When the surface is a disc these algebras are  $m$ -cluster tilted algebras. (Received February 04, 2013)