1038-14-181 **Eduardo Cattani** and **Alicia Dickenstein*** (alidick@dm.uba.ar), Departamento de Matematica, FCEN, UBA, Ciudad Universitaria, Pab. I, 1428 Buenos Aires, Argentina, and **Fernando Rodriguez Villegas**. *Bivariate rational hypergeometric functions and residues.*

We show that for any Cayley configuration A of codimension two, a sufficiently high derivative of any rational function solution of the associated A-hypergeometric system is a toric residue. This follows from the fact that the dimension of the space of rational A-hypergeometric functions with homogeneities in the Euler-Jacobi cone of A equals 1 and is spanned by an explicit toric residue we read from the configuration and the homogeneity. This gives a geometric interpretation of monodromy invariant A-hypergeometric functions for codimension two configurations. (Received February 08, 2008)