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Antonella Grassi* (grassi@math.upenn.edu), Department of mathematics, 209 South 33rd Street, Philadelphia, PA 19104. *Constructions on Polytopes inspired by a String Theory duality.*

I will discuss some mathematical consequences of the Heterotic/F-theory duality conjecture in physics and its interpretation for of Calabi-Yau hypersurfaces in toric variety. (Received February 23, 2007)