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Julius L. Shaenson*, DRL Labs, 209 S. 33rd street, Philadelphia, PA 19096. *Topological String Junctions*.

(from joint work with A. Grassi, J. Halverson, W. Taylor, F. Ruehle) The method of topological string junctions is a mathematical interpretation of something from F-theory in physics in the context of Calabi-Yau spaces used to represent possible physical theories. This talk will mention some approaches to understand higher dimensional situations that have arisen or might arise, using topological string junctions and deformations, in particular to determine Lie algebras and representations associated to various 3-folds of interest. (Received September 19, 2016)