

1077-B1-1792 **Radmila Sazdanovic*** (radmilas@math.upenn.edu), Department of Mathematics, 209 South 33rd Street, David Rittehouse Lab, Philadelphia, PA 19104-6395. *Diagrammatics: Art, Language, and Mathematics*.

Image is written and the writing forms images- both have numerous layers of semantics and deliver different information depending on the viewers interests and background. The main topic of this talk is diagrammatics which arises naturally in the new area of mathematics called categorification (M. Khovanov, A. Lauda, B. Elias, R. Sazdanovic), and the pictorial language used to study problems such as quantum computing and teleportation (S. Abramsky, B. Coecke). In this context, diagrammatic approach provides a proper intuition and we will show examples of purely visual proofs, as well as the artists' take on it (Hiroko and Ritsuko Izuhara, Afternoon studio). (Received September 21, 2011)