1139-53-562   **Sema Salur*** (`sema.salur@rochester.edu`), Department of Mathematics, University of Rochester, Rochester, NY 14627. *Geometric Structures on Manifolds with Special Holonomy and Applications.* Preliminary report.

Calibrated submanifolds of Calabi-Yau and G_2 manifolds are volume minimizing in their homology classes and their moduli spaces have many important applications in geometry, topology and physics. In this talk we give a report of recent research on the calibrations inside the manifolds with special holonomy. (Received February 19, 2018)