## 1116-37-1938 Kamal Mani Adhikari\* (kadhikari@siu.edu), 1245 Lincoln Drive, Department of Mathematics, Southern Illinois University Carbondale, Carbondale, IL 62901, and Michael Sullivan (prof.michael.sullivan@gmail.com). Simple Smale flows with n-band templates ( n=3,4).

In the talk we will mainly focus on the linking structure of periodic orbits (attractor and repeller) in simple Smale flows using some branched 2 manifolds called templates and discuss the realizations of the non-singular Smale flows using 3-band and 4-band template models. This extends the work done by M. Sullivan on Lorenz Smale flows, Bin Yu on realizing Lorenz Like Smale flows on 3-manifold and continues the work of Elizabeth Haynes and M.Sullivan on realizing simple Smale flows with a four band template on 3-sphere. (Received September 21, 2015)