1117-57-309 **Yewon Joung*** (yjoung@math.msu.edu), **Seiichi Kamada** (skamada@sci.osaka-cu.ac.jp) and **Sang Youl Lee** (sangyoul@pusan.ac.kr). *Applying Lipson's state models to marked graph diagrams of surface-links.*

A surface-link of n components is n mutually disjoint connected and closed (possibly orientable or non-orientable) 2-manifolds smoothly (or piecewise linearly and locally flatly) embedded in the oriented 4-space. In 1992, A. S. Lipson constructed two state models yielding the same classical link invariant obtained from the Kauffman polynomial $F(a;z)$. In this talk, we apply Lipson's state models to marked graph diagrams of surface-links, and observe when they induce surface-link invariants. This is a joint work with Seiichi Kamada and Sang Youl Lee. (Received January 16, 2016)