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Geometric Constructions in Link Theory & Polynomial Invariant Formulae. Preliminary report.

Many geometric constructions in the theory of classical links can be mirrored in combinatorial setting of the associated Kauffman state ribbon graphs (e.g. all-A or Seifert). In particular, connected sum, mutations, closed braid powers can be treated by these techniques. Analogous constructions will be described for the associated state graphs, together with associated formulae for the rank polynomial & the associated link polynomial invariants. (Received August 19, 2013)