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Agnese Barbensi* (barbensi@maths.ox.ac.uk), University of Oxford, Radcliffe Observatory, Andrew Wiles Building, Oxford, OX2 6GG, United Kingdom. *Network of Grid Diagrams to Study the Knots Space and Applications*. Preliminary report.

The configuration space of knots can be modelled as an infinite network whose vertices are knot diagrams and edges are local moves on diagrams. This setting provides a topological framework to investigate on statistical properties of knotted biopolymers. (Received September 15, 2020)