## Kathryn Hess Bellwald EPFL, Switzerland

Topological perspectives on networks

Over the past decade or so, tools from algebraic topology have been shown to be very useful in the analysis and characterization of networks, in particular for exploring the relation of structure to function. I will describe some of these tools and illustrate their utility in neuroscience in particular, hoping to inspire use for other networks relevant in biology, such as gene regulatory networks, metabolic networks, and protein-protein interaction networks.