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## **Talk:** A formal look at spiking neural P systems

**Abstract:** In this talk we will consider the model of spiking neural P systems (SNP) from the formal perspective. Based on the formal framework for P systems we decompose the model and its semantics in distinct bricks and then show how different existing variants of SNP can be constructed from them. This allows to compare different variants of SNP systems, to extend them and to provide bisimulations.

We will also discuss the vector notation for the description of SNP systems and the relations (bisimulations) to other variants of P systems and related models (like Petri nets).