Tutorial 14

1. Characterize approximants $(\sim_n)$ using modal logic.

2. Discuss the relation between Petri nets and CCS. How to describe a general Petri net in CCS in a way that "preserves" reachable configurations.

3. Prove that Petri nets without communication (each transition has one incoming arc of weight one) are equivalent to CCS without restrictions and communication (no complementary actions).

Homework (not mandatory)

1. Consider the set of all configurations for a given Petri net and bisimulation equivalence relation on them. Is this equivalence a congruence for general net (consider the set of configurations with addition operation)? Is it a congruence for Petri net without communication?