Summary: We present PRISMA, a parametric calculus that can be instantiated with different interaction policies, defined as synchronization algebras with mobility of names (SAMs). We define both operational semantics and observational semantics of PRISMA, showing that the second one is compositional for any SAM. We give examples based on heterogeneous SAMs, a case study on Fusion Calculus and some simple applications. Finally, we show that basic categorical tools can help to relate and to compose SAMs and PRISMA processes in an elegant way.

For the entire collection see [Zbl 1129.68006].

MSC:

- 68M14 Distributed systems
- 68Q85 Models and methods for concurrent and distributed computing (process algebras, bisimulation, transition nets, etc.)

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