

**Merro, Massimo; Sangiorgi, Davide**

**On asynchrony in name-passing calculi.** (English) [Zbl 0910.03019](#)

Larsen, Kim G. (ed.) et al., Automata, languages and programming. 25th international colloquium, ICALP '98. Aalborg, Denmark, July 13–17, 1998. Proceedings. Berlin: Springer. Lect. Notes Comput. Sci. 1443, 856–867 (1998).

Summary: We study an asynchronous  $\pi$ -calculus, called Local  $\pi$  ( $L\pi$ ), where: (a) only the output capability of names may be transmitted; (b) there is no matching or similar constructs. We study the basic operational and algebraic theory of  $L\pi$  and show some applications: the derivability of delayed input; the correctness of an optimization of the encoding of call-by-name  $\lambda$ -calculus; the validity of some laws for the Join-calculus.

For the entire collection see [\[Zbl 0893.00039\]](#).

**MSC:**

[03B70](#) Logic in computer science

[03B40](#) Combinatory logic and lambda calculus

Cited in **24** Documents

**Keywords:**

[process calculi](#); [asynchronous  \$\pi\$ -calculus](#); [call-by-name  \$\lambda\$ -calculus](#); [Join-calculus](#)