

Team session – LSV (Cachan)

Nicolas Markey

March 6, 2009

LSV at a glance

- ▶ **~ 50 researchers**
 - ▶ 24 permanent researchers, 3 visiting researchers
 - ▶ 19 PhD students, 2 post-docs
- ▶ **5 research directions around verification**
 - ▶ **TEMPO**: quantitative model-checking and games
 - ▶ **MeXICo**: verification of distributed systems
 - ▶ **INFINI**: model-checking infinite-state systems
 - ▶ **DAHU**: verification and databases
 - ▶ **SECSI**: verification of cryptographic protocols
- ▶ **many national and international collaborations**
 - ▶ **DOTS** (Bordeaux, Rennes, ...)
 - ▶ **QUASIMODO, GASICS** (Aalborg, Brussels, Aachen, ...)
 - ▶ **Arcus** (Chennai, ...)

GASICS-related activities

- ▶ distributed synthesis
cf. talk by Tali Sznajder

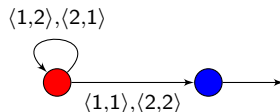
GASICS-related activities

- ▶ distributed synthesis
cf. talk by Tali Sznajder
- ▶ (priced) timed games
cf. talk by Patricia Bouyer

GASICS-related activities

- ▶ distributed synthesis
cf. talk by Tali Sznajder
- ▶ (priced) timed games
cf. talk by Patricia Bouyer
- ▶ ATL with strategy contexts

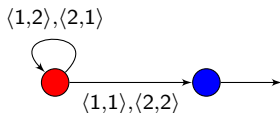
$\langle\langle A \rangle\rangle \mathbf{X} \langle\langle B \rangle\rangle \mathbf{X} \bullet$



GASICS-related activities

- ▶ distributed synthesis
cf. talk by Tali Sznajder
- ▶ (priced) timed games
cf. talk by Patricia Bouyer
- ▶ ATL with strategy contexts

$\langle\langle A \rangle\rangle X \langle\langle B \rangle\rangle X \bullet$

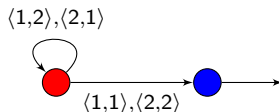


$\langle\langle A \rangle\rangle \langle\langle B \rangle\rangle \left([\langle\langle A \rangle\rangle \phi_A \Rightarrow \phi_A] \wedge [\langle\langle B \rangle\rangle \phi_B \Rightarrow \phi_B] \right)$

GASICS-related activities

- ▶ distributed synthesis
cf. talk by Tali Sznajder
- ▶ (priced) timed games
cf. talk by Patricia Bouyer
- ▶ ATL with strategy contexts

$\langle\langle A \rangle\rangle X \langle\langle B \rangle\rangle X \bullet$



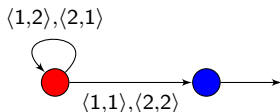
$\langle\langle A \rangle\rangle \langle\langle B \rangle\rangle \left([\langle\langle A \rangle\rangle \phi_A \Rightarrow \phi_A] \wedge [\langle\langle B \rangle\rangle \phi_B \Rightarrow \phi_B] \right)$

- ▶ equilibria in priced timed games

GASICS-related activities

- ▶ distributed synthesis
cf. talk by Tali Sznajder
- ▶ (priced) timed games
cf. talk by Patricia Bouyer
- ▶ ATL with strategy contexts

$\langle\langle A \rangle\rangle X \langle\langle B \rangle\rangle X \bullet$



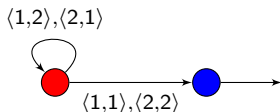
$\langle\langle A \rangle\rangle \langle\langle B \rangle\rangle \left([\langle\langle A \rangle\rangle \phi_A \Rightarrow \phi_A] \wedge [\langle\langle B \rangle\rangle \phi_B \Rightarrow \phi_B] \right)$

- ▶ equilibria in priced timed games
- ▶ games with imperfect information

GASICS-related activities

- ▶ distributed synthesis
cf. talk by Tali Sznajder
- ▶ (priced) timed games
cf. talk by Patricia Bouyer
- ▶ ATL with strategy contexts

$\langle\langle A \rangle\rangle X \langle\langle B \rangle\rangle X \bullet$



$\langle\langle A \rangle\rangle \langle\langle B \rangle\rangle \left([\langle\langle A \rangle\rangle \phi_A \Rightarrow \phi_A] \wedge [\langle\langle B \rangle\rangle \phi_B \Rightarrow \phi_B] \right)$

- ▶ equilibria in priced timed games
- ▶ games with imperfect information
- ▶ robustness issues in timed games