



# Quantum and Randomized Algorithms and Complexity

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## Participants

- Subset of “Algorithms and Complexity” team of LRI, Univ Paris-Sud, Orsay
- 2 PR, 3 CR CNRS, 2 DR CNRS + 6 PhD Students

## Project: “Make progress in Randomized and Quantum computing by *joining forces*”

- **Randomized Algorithms:** Data-intensive models with restricted data access
  - Property Testing and Streaming Algorithms - Online Algorithms
  - Algorithmic Game theory
- **Quantum Computation**
  - Algorithms, Complexity, Information and Communication
- **Interaction**
  - Locally Decodable Codes, Communication Complexity, Circuit lower bounds

## Support: 420 K€ / 4 years

- 2 years of **Postdoc**, 3 years of **PhD**, 40 months of **Internship**: 220 K€
- **Travels + Invitations**: 104 K€ (request 200 K€)
- **Computers** and small Equipment: 80 K€
- **Management**: 16 K€