



ALICE & BOB

RESEARCH STARTUP AFTER ICFP MASTER

François-Marie Le Régent
19/11/2020



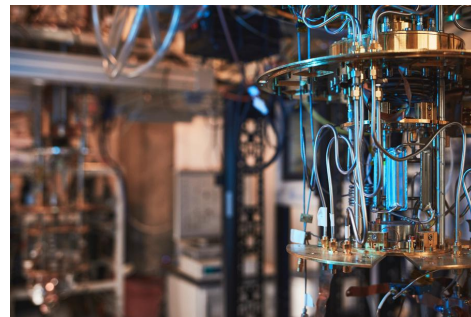
HELLO 🖐️

- M1 internship @Atos
 - March 19 – August 19
 - Quantum computing
- ICFP M2 2019-2020
 - September 19 – April 20
 - Quantum physics track
- M2 internship @INRIA
 - April 20 – July 20
 - Mazyar Mirrahimi
- PhD between A&B and INRIA

Atos



Inria



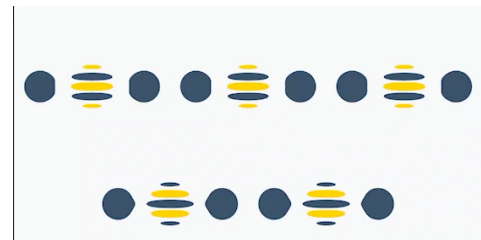
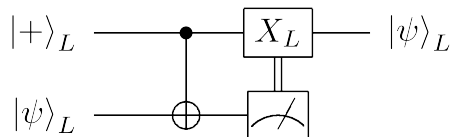
TYPICAL WEEK

- Universal Fault-tolerant quantum computer using cat qubits

- Theoretical research

- Shared time

- Alice&Bob
 - @Agoranov, 6th arrondissement
 - ~15 people
- INRIA
 - @Gare de Lyon
 - 5 PI and ~10 PhD students



Inria



PHD WITH OR WITHOUT A COMPANY ?

- 100% Academic PhD



PHD WITH OR WITHOUT A COMPANY ?

- 100% Academic PhD
- CIFRE
 - x% academic & (1-x)% company
 - 3 actors
 - Company → Research axes & funding
 - Academic laboratory → scientific supervision
 - You!



<https://www.enseignementsup-recherche.gouv.fr/cid22130/les-cifre.html>
<http://www.anrt.asso.fr/fr/cifre-7843>

HOW TO CHOOSE?

- **Talk** to people → increase the opportunities
- Compare the possible choices:

• PhD director	Green	Yellow	Green
• Subject	Green	Green	Yellow
• Team spirit	Green	Green	Green
• Funding	Yellow	Red	Green
• Cooperation	Green	Green	Red
	Yellow	Green	Yellow

✓

Rockstar 🤘 vs Pedagogical 🧑🏫
Trendy 📈 vs Original 💎
Competitive 🔥 vs Supportive 🤗
~1700€ 💶 vs ~2100€ 💵
Foreign universities 🌐

→ Personal choice

PERSONAL EXPERIENCE

- Talk to a lot of “quantum interested” companies...

AIRBUS
GROUP

IBM



Atos

Google



- ... And startups



PASQAL

ALICE & BOB



ALICE & BOB, RESEARCH STARTUP

- Strong scientific board



B. Huard



Z. Leghtas



P. Campagne-Ibarcq



M. Mirrahimi



E. Flurin

ALICE & BOB, RESEARCH STARTUP

- Strong scientific board
- Team of driven people

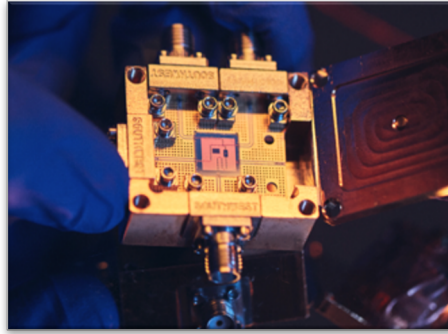


CHOOSE YOUR PHD TRACK

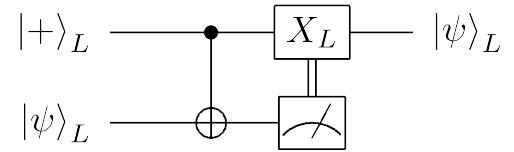
- Strong scientific board
- Team of driven people
- Direct synergy between theory and experiments



Fab & design 🧐



Cats 🐱 & qubits



Architecture 🧑‍💻

ALICE & BOB, RESEARCH STARTUP

- We are hiring!
 - Curious, honest and ambitious people
 - M2 Internships
 - PhD positions
- Stimulating research in a highly collaborative environment





ALICE & BOB

Come and talk!



ID: 973 5237 4871

THANKS

 contact@alice-bob.com

 Alice & Bob

 @Alice__Bob

François-Marie Le Régent
francois-marie.le-regent@alice-bob.com