



Opinions Libres

le blog d'Olivier Ezratty

My first peer-reviewed paper on quantum computing

Since 2018, I have been exploring quantum technologies and quantum computing as a newbie. It started with a conference (with Fanny Bouton), then 18 posts on this blog, then a book in French, which turned into a **1132 pages book in English**. Plus two series of podcasts again with Fanny Bouton, teaching on quantum technologies and computing in various places and cofounding the **Quantum Energy Initiative** with Alexia Auffèves, Robert Whitney and Janine Splettstoesser. What a journey!

I also started to publish preprints on arXiv, like **Mitigating the quantum hype** (January 2022, 26 pages) and **Is there a Moore's law for quantum computing?** (March 2023). Plus an upcoming one titled "Where are we heading with NISQ?" (I'm still looking for reviewers for this rather long 47 pages piece).

Last but not the least, I was asked during summer 2022 by Thomas Ayril (Atos/Eviden) and Thomas Duguet (CEA) to contribute to a special edition of the **European Physical Journal A** with a perspective paper on superconducting qubits. After a long ride, "Perspective on superconducting qubit quantum computing" was recently published and you can access the **PDF file online**.

It is part of the "**Quantum Computing in Low-Energy Nuclear Theory**" section, coordinated by Thomas Ayril, Thomas Duguet, Denis Lacroix and Vittorio Somà.

It happens to be a premiere as I am concerned since this is the first of my papers being published in a peer-reviewed journal. This was quite an experience for me, like the one any young PhD candidate is going through when publishing his/her first papers. But with a key difference: I didn't do some actual research and didn't have a PhD thesis supervisor. I also had to learn using LaTeX for the first time and going through the submission, reviewing, updating and final editing process for the paper.

I will share more details on this experience in the next version of my book *Understanding Quantum Technologies*, to be published before the end of 2023.

