


# TENORS

## Tensor modELiNg, geOMetRy and optimiSation

Marie Skłodowska-Curie Doctoral Network   
2024-2027



*Tensors are nowadays ubiquitous in many domains of applied mathematics, computer science, signal processing, data processing, machine learning and in the emerging area of quantum computing. TENORS aims at fostering cutting-edge research in tensor sciences, stimulating interdisciplinary and intersectorial knowledge developments between algebraists, geometers, computer scientists, numerical analysts, data analysts, physicists, quantum scientists, and industrial actors facing real-life tensor-based problems.*

### Partners:

- 1 Inria, Sophia Antipolis, France (B. Mourrain, A. Mantzaflaris)
- 2 CNRS, LAAS, Toulouse, France (D. Henrion, V. Magron, M. Skomra)
- 3 NWO-I/CWI, Amsterdam, the Netherlands (M. Laurent)
- 4 Univ. Konstanz, Germany (M. Schweighofer, S. Kuhlmann, M. Michalek)
- 5 MPI, Leipzig, Germany (B. Sturmfels, S. Telen)
- 6 Univ. Tromsø, Norway (C. Riener, C. Bordin, H. Munthe-Kaas)
- 7 Univ. degli Studi di Firenze, Italy (G. Ottaviani)
- 8 Univ. degli Studi di Trento, Italy (A. Bernardi, A. Oneto, I. Carusotto)
- 9 CTU, Prague, Czech Republic (J. Marecek)
- 10 ICFO, Barcelona, Spain (A. Acin)
- 11 Artelys SA, Paris, France (M. Gabay)

### Associate partners:

- 1 Quandela, France
- 2 Cambridge Quantum Computing, UK.
- 3 Bluetensor, Italy.
- 4 Arva AS, Norway.
- 5 HSBC Lab., London, UK.

**15 PhD positions  
(2024-2027)**

(recruitment expected around Oct. 2024)

**Scientific coord:** B. Mourrain  
**Adm. manager:** Linh Nguyen