Call 2017

SUMO

Scaling-Up quantum computation with MOlecular spin

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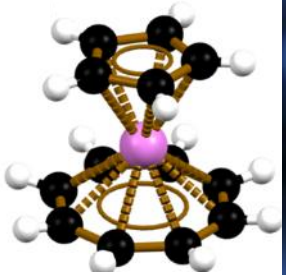
http://sumo.unizar.es/

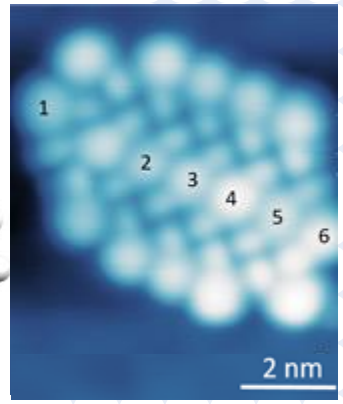
@fatmols

SUCCESS STORY (highlights)

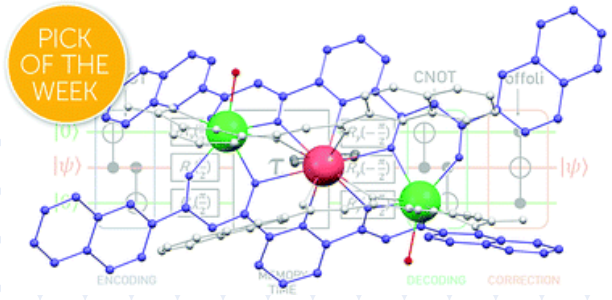
Wire up molecular spin qubits?

Molecular design & molecular processing



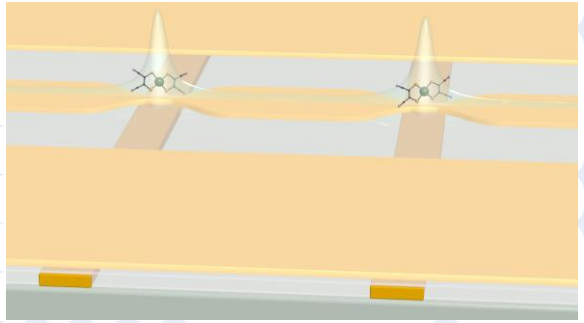


Molecular quantum processors (qudits)

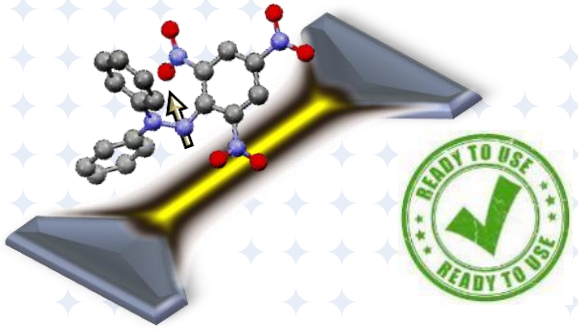


Qudit based QEC

Record spin-photon couplings



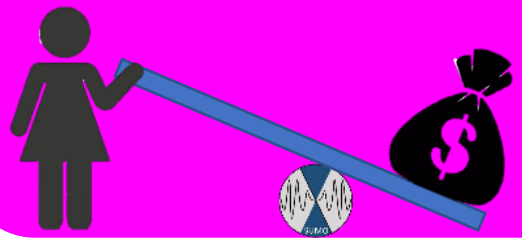
Circuit QED



Readout and control protocols

IMPACT (RRI aspects)

Exploit SUMO to lever projects led by female PIs



European School on Molecular Nanoscience

ESMolNa
European School on Molecular Nanoscience

Open Access publications

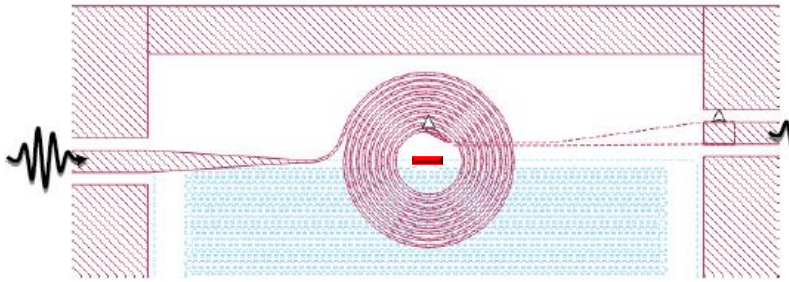
All data available through the project's web and Zenodo FATMOLS repository

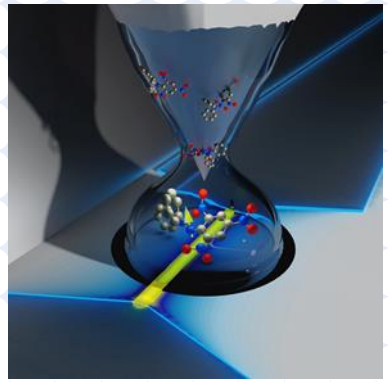
CSIC Q-platform: open service for quantum circuits tests

QTEP
Quantum Technologies Platform

IMPACT (potential users)

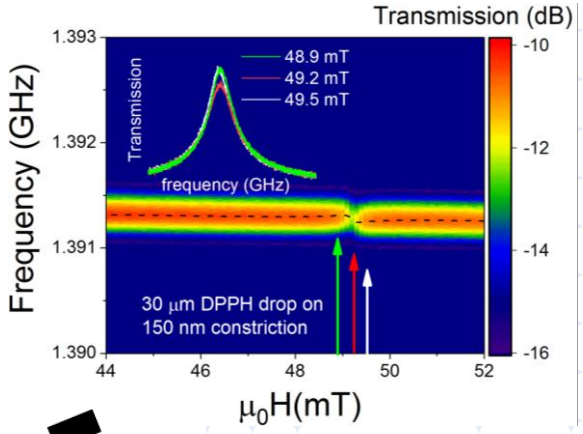
Optimized resonant circuits





Molecular integration techniques

On-chip magnetic resonance on femto-litre samples



Scientific instrumentation

Chemical and biomedical analysis

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 731473.