ERC: proposal preparation & ARRS support schemes

dr. Zala Lenarčič, Jožef Stefan Institute, Department for theoretical physics zala.lenarcic@ijs.si

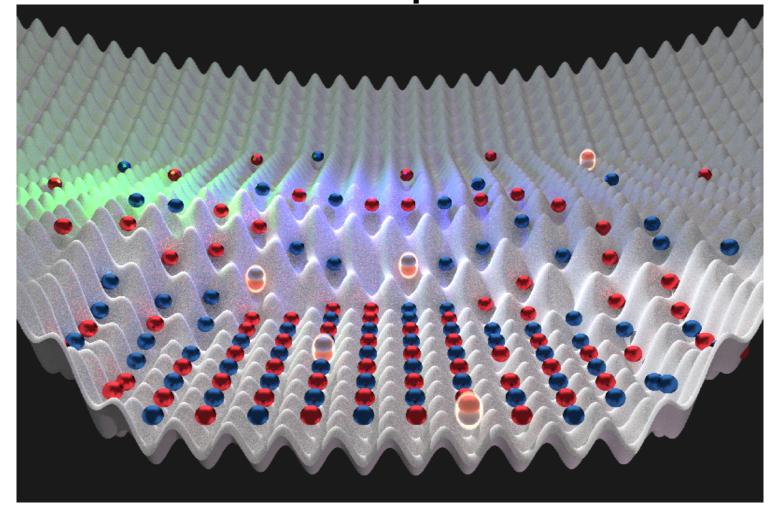
Why, when and how ... to write an ERC

ERC project: Weakly driven quantum symmetries (DrumS)

ERC potential: Eta-pairing as a glue

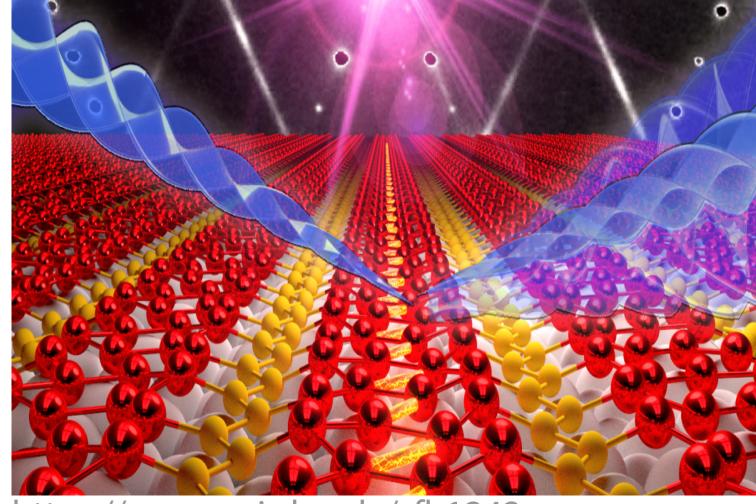
Quantum systems out of equilibrium

Cold atoms in optical lattice



C. Chiu/Harvard University

Laser excitation of materials



https://www.uni-due.de/sfb1242

Quantum computing



Rocco Ceselin/Google

Basic understanding of quantum matter New functionalities of materials Quantum computing

(my) ERC application preparation

My story:

- PhD at JSI
- postdocs: Uni of Cologne (3 years) + Uni of Cal, Berkeley (2 years)
- return to Slovenia with Ales Debeljak scheme,
- QuantERA project coordinator

Why to write it (in Slovenia):

- 2nd class employer?
- recognition and better conditions: easier to attract better candidates
- independent research path in your 'native' (Slovenian) environment

Not a waste of time:

- clears and organizes your research interests for next 5 years
- you build a research compass for yourself and others
- can follow the plan if successful or not
- can recycle the application for other smaller grants if not successful

(my) ERC application preparation

When to write it:

- if you have a good narrative, a complete application 'story'
- don't do it last year within your category

B1, B2:

- one vs two panels?
- took ~3 months
- write with external support or not?
- show it to some ERC panelists

Interview:

- vivid, attractive, concise
- converged to the last version really slowly, many iterations
- involve people with ERC experience: community spirit:)

ERC potencial - ARRS support scheme

ERC project launch:

- I pushed it ~1 year ahead
- need time to find people

ERC potencial:

- prepare the grounds for ERC project
- gives you a buffer in case some people come earlier
- prepare your lab

I am a theoretician ...

- preparing a numerical library for tensor network calculations
- develop numerical neural network technique to be applied in ERC
- pre-scanning if another phenomena related to the ERC Objective