

### Visualizing strongly-correlated electrons with a novel scanning tunneling microscope

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## VISUALIZING STRONGLY-CORRELATED ELECTRONS WITH A NOVEL SCANNING TUNNELING MICROSCOPE

PROEFSCHRIFT

ter verkrijging van de graad van Doctor aan de Universiteit Leiden, op gezag van Rector Magnificus prof. mr. C.J.J.M. Stolker, volgens besluit van het College voor Promoties te verdedigen op woensdag 8 mei 2019 klokke 11:15 uur

 $\operatorname{door}$ 

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geboren te Padova, Italië in 1990

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The cover shows a (Fourier-filtered) atomically-resolved STM topographic image measured by the author on  $Sr_2RhO_4$ . Few atomic defects act as scatterers for quasiparticles, resulting in the formation of standing waves that interfere with each other. The width of the author name corresponds to a scalebar of 2 nm.

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