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## **Fermions and bosons : excitons in strongly correlated materials**

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# Fermions and Bosons

## Excitons in strongly correlated materials

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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 11 december 2013  
te klokke 15:00 uur

door

Louk Rademaker  
geboren te Vleuten-De Meern (Utrecht), Nederland in 1986

## Promotiecommissie

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The cover shows the painting *Contra-compositie van dissonanten XVI* by Theo van Doesburg, Collectie Gemeentemuseum Den Haag. Reprinted with permission. Van Doesburg founded the famous 'De Stijl' art movement in Leiden. This painting is created in 1925, the year of birth for fermions: Pauli presented his exclusion principle and Uhlenbeck and Goudsmit discovered the electron spin.

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