

Second-Harmonic Generation,
a Selective Probe for Excitons

In science we often probe "a black box". We form an interpretation based on the evidence present at that moment. Additional research can lead to a change in interpretation. The experimental results presented in this thesis show that second-harmonic generation can probe excitons selectively. The last picture on the cover shows the exciton spectrum from C_{60} measured in a second-harmonic generation experiment, taken at 200 K.

The cover is designed by Barbara Tevarotto after the idea of Andrea Damascelli. The first two pictures are taken from *Le Petit Prince* by Antoine de Saint-Exupéry.

D'après Antoine de SAINT-EXUPÉRY, *Le Petit Prince*
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Rijksuniversiteit Groningen

Second-Harmonic Generation, a Selective Probe for Excitons

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Anna-Maria Janner

geboren op 10 oktober 1968
te Nijmegen

Promotor: Prof. Dr. G.A. Sawatzky

*Nur Beharrung führt zum Ziel
Nur die Fülle führt zur Klarheit
Und im Abgrund wohnt die Wahrheit*

F. Schiller in "Sprüche des Konfuzius"

aan mijn ouders

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