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## Observational constraints on the evolution of dust in protoplanetary disks

Martins e Oliveira, I.

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OBSERVATIONAL CONSTRAINTS  
ON THE EVOLUTION OF DUST  
IN PROTOPLANETARY DISKS



OBSERVATIONAL CONSTRAINTS  
ON THE EVOLUTION OF DUST  
IN PROTOPLANETARY DISKS

PROEFSCHRIFT

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de graad van Doctor aan de Universiteit Leiden,  
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door

Isabel Martins e Oliveira

geboren te Teresópolis, Brazilië  
in 1982

Promotiecommissie

Promotor: Prof. dr. E.F. van Dishoeck

Co-Promotor: Dr. K.M. Pontoppidan (Space Telescope Science Institute, USA)

Overige leden: Dr. J. Bouwman (Max-Planck-Institut für Astronomie, Germany)  
Prof. dr. C.P. Dullemond (Universität Heidelberg, Germany)  
Prof. dr. K. Luhman (The Pennsylvania State University, USA)  
Prof. dr. A.G.G.M. Tielens  
Prof. dr. K. Kuijken

Para todas as meninas  
que não cresceram  
para realizar seus sonhos

*“Somos quem podemos ser  
Sonhos que podemos ter”*

Humberto Gessinger

*Cover Artwork:* Roderik Overzier

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