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## Dust and gas in extra-galactic radio sources

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RIJKSUNIVERSITEIT GRONINGEN

**Dust and gas in extra-galactic radio  
sources**

PROEFSCHRIFT

ter verkrijging van het doctoraat in de  
Wiskunde en Natuurwetenschappen  
aan de Rijksuniversiteit Groningen  
op gezag van de  
Rector Magnificus, dr. D. F. J. Bosscher,  
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door

**Ilse Marina van Bommel**

geboren op 31 mei 1973  
te Amersfoort

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Prof. dr. R.H. Sanders

Voor Vera

*Wat is het nut van hersens als je een meisje bent?*

Dr. Aletta H. Jacobs (1854–1929)

*Cover page image:* Artist's impression of an ISO-PHOT mini-map, in false colours.

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