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## Spectral and timing properties of black-hole low-mass X-ray binaries

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UNIVERSITY OF  
**Southampton**

# Spectral and timing properties of black-hole low-mass X-ray binaries

**PhD thesis**

to obtain the joint degree of PhD at the  
University of Groningen and University of Southampton

on the authority of the  
Rector Magnificus of the University of Groningen  
Prof. C. Wijmenga,  
President and Vice-Chancellor of the University of Southampton  
Prof. M. E. Smith

and in accordance with  
the decision by the College of Deans of the University of Groningen.

This thesis will be defended in public on

Friday 17 December 2021 at 12:45 hours

by

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To all those pursuing their dreams:  
it is possible.

Un hombre sabio me dijo una vez:  
*Las cosas hay que hacerlas bien.*  
*Para hacerlas mal, mejor no se hacen.*

Espero poder ser capaz de seguir su consejo algún día...

**Cover:** Artistic impression of a black hole with an accretion disc. Cover designed by Bryan Alabarta Jativa

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