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## **Merging galaxy clusters: probing magnetism and particle acceleration over cosmic time**

Di Gennaro, G.

### **Citation**

Di Gennaro, G. (2021, July 8). *Merging galaxy clusters: probing magnetism and particle acceleration over cosmic time*. Retrieved from <https://hdl.handle.net/1887/3188671>

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**Author:** Di Gennaro, G.

**Title:** Merging galaxy clusters: probing magnetism and particle acceleration over cosmic time

**Issue date:** 2021-07-08



# **Merging Galaxy Clusters: probing magnetism and particle acceleration over cosmic time**

Proefschrift

ter verkrijging van  
de graad van doctor aan de Universiteit Leiden,  
op gezag van rector magnificus prof.dr.ir. H. Bijl,  
volgens besluit van het college voor promoties  
te donderdag op 8 juli 2021  
klokke 16:15 uur

door

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geboren te Mugnano di Napoli (Naples), Italië  
in 1992

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ISBN: 978-94-6423-328-5

The cover design and coloring is done by Gabriella Di Gennaro. The front cover shows a rotated image of the relic in the merging galaxy cluster CIZA J2242+5301, as seen by the VLA radio telescope; the white segments on the relic represent the direction of electric field on the source. The back cover shows one of the brightest and most distant galaxy clusters known to date, located when the Universe was only half of its age, as seen by the LOFAR radio telescope.

Printed by ProefschriftMaken (<https://www.proefschriftmaken.nl>)

A mia sorella  
la mia forza, la mia roccia,  
il mio porto sicuro.

*To my sister  
my strength, my rock,  
my safe harbour.*





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