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Logarithmic approach to the double ramification cycle

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Curriculum Vitae

Rosa Schwarz was born on the 3rd of August 1994 in Delft. In 2012, she finished her bilingual gymnasium education at the Grotius College in Delft. She chose to study mathematics at the Universiteit Leiden directly afterwards. In 2015 she finished her bachelor's degree in mathematics summa cum laude, and in 2018 her master's degree in algebraic geometry, also summa cum laude. Her master thesis titled 'Gromov-Witten invariants of the classifying stacks of principal $\mathbb{G}_m$ -bundles' was nominated for the annual ASML mathematics award from 'de hollandsche maatschappij der wetenschappen'. During her studies, Rosa was also a teaching assistant at the Mathematical Institute in several courses.

Directly after her studies, Rosa started doing a PhD under the supervision of dr. David Holmes. The AIM workshop *Double ramification cycles and integrable systems* in October 2019 played a key role for the collaboration and the start of her first paper 'Pixton's formula and Abel-Jacobi theory on the Picard stack' which is joint work with Younghan Bae, David Holmes, Rahul Pandharipande, and Johannes Schmitt. She attended several international conferences including *Recent Advances in Moduli Spaces of Curves* conference in Leysin in March 2022 and *Young Women in Cohomological Methods in Geometry* conference in Freiburg Im Breisgau in April 2022, where she also gave talks. In February 2023 she was an invited speaker at *Logarithmic geometry and moduli spaces* conference in Frankfurt am Main.

Rosa also continued assisting courses taught in Leiden and was jointly responsible for the workshop educating new teaching assistants at the Mathematical Institute. She organised several activities at the Mathematical Institute, organising PhD colloquia for the group of PhDers as a member of the organising committee, as well as organising 'MI gets crafty' hours for any interested member of the MI.