



# Strings, Geometry, and Integrability

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Jeroen Monnee



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

# About my *name*

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Jeroen

[jə'run]

# About my *name*

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Jeroen

[jə'ru:n]

“your room”

# About my *name*

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Jeroen

[jə'ru:n]

“your roo*n*”

# About *me*

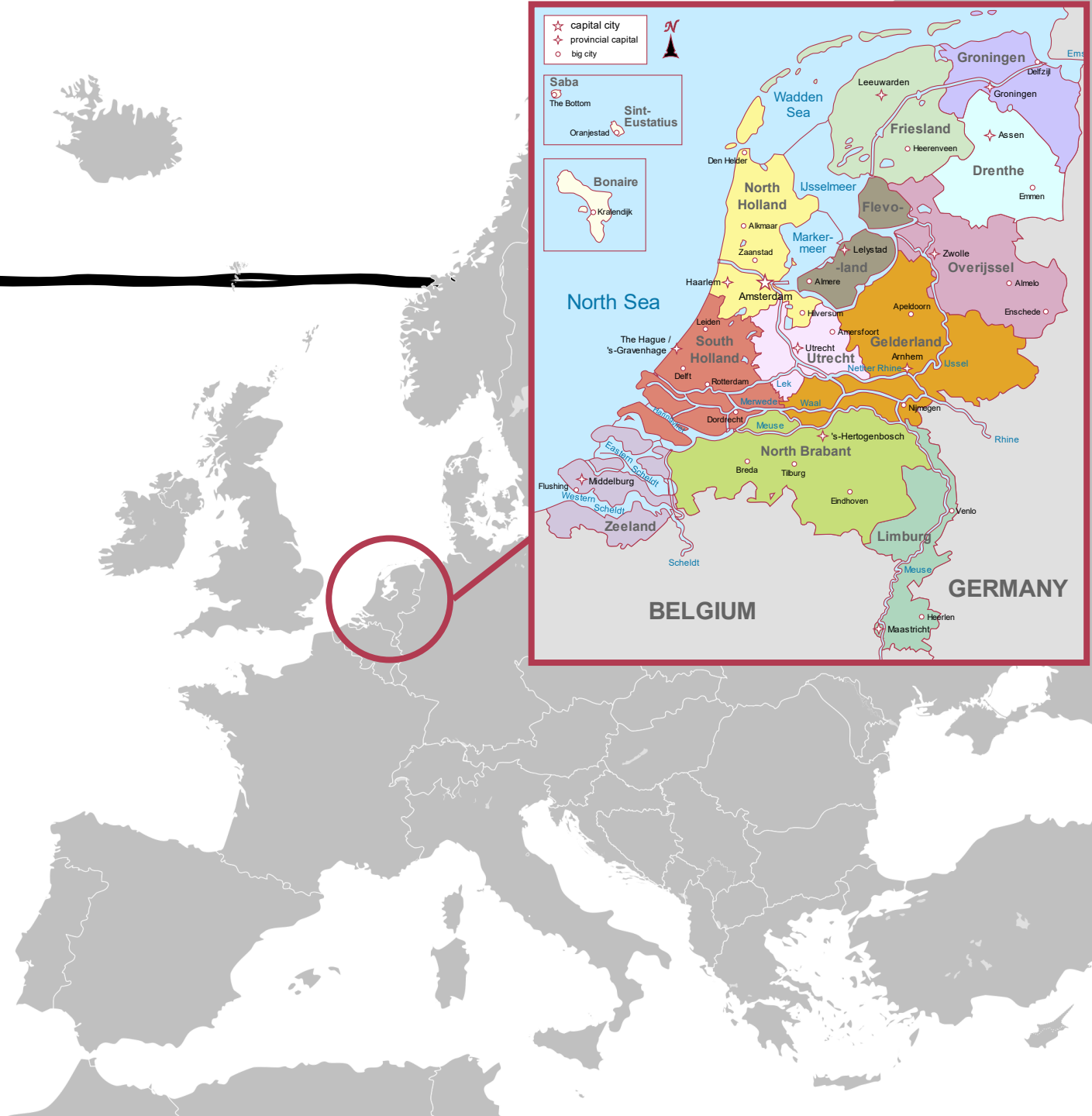
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- Born in Eindhoven, the Netherlands



# About me

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# ASML





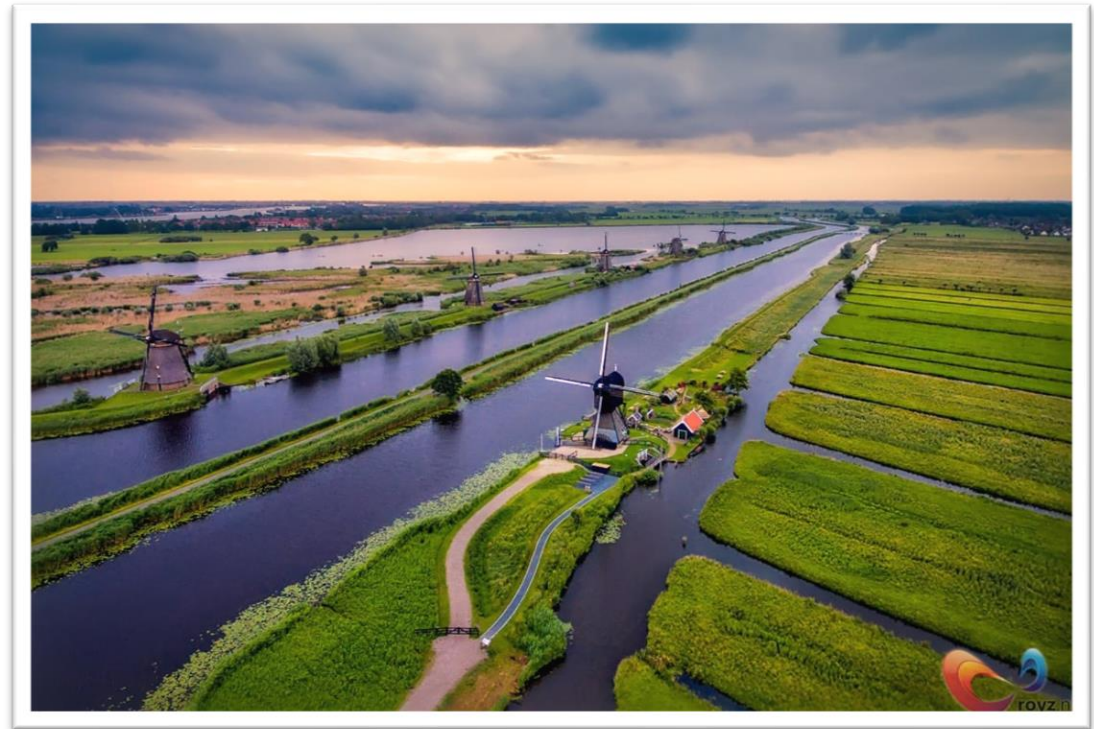
# About me

- Bsc, Msc, PhD in Utrecht
- Group of Thomas Grimm

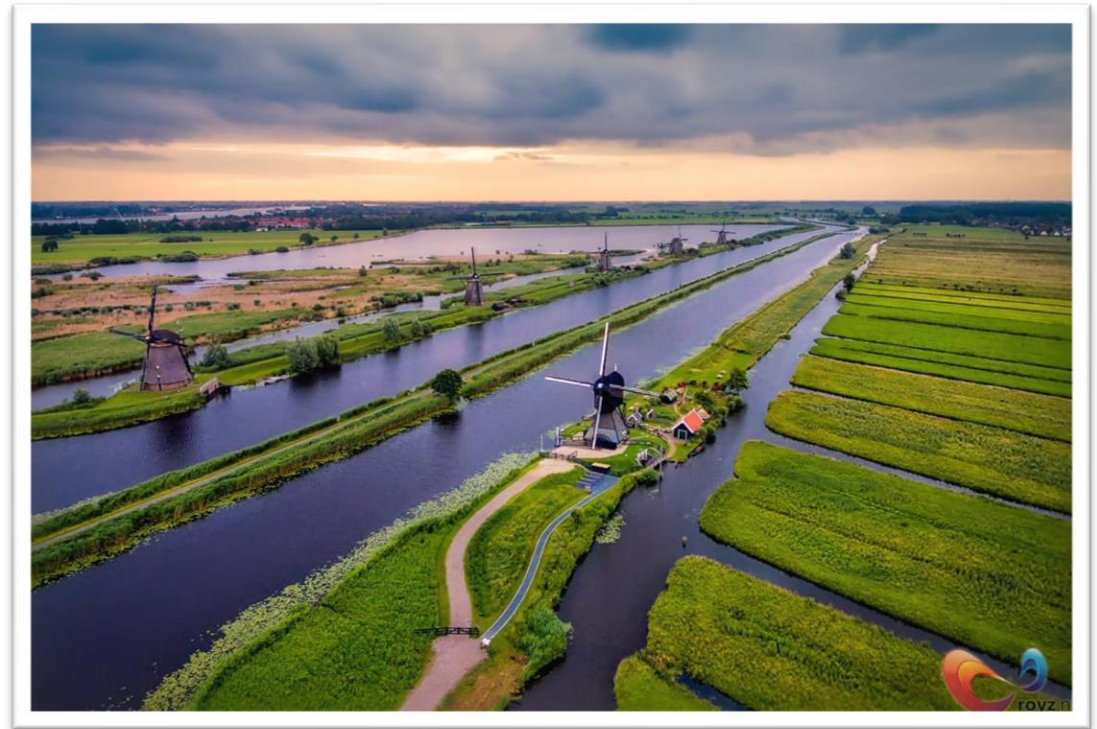




The Netherlands is a very **flat** country...



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No mountains 😞



I like to go in-door climbing



I like to go in-door climbing



And hiking!





# Other Hobbies

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Composing music + playing the  
piano

# Other Hobbies

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Composing music + playing the  
piano



Boardgames, D&D

# Other Hobbies

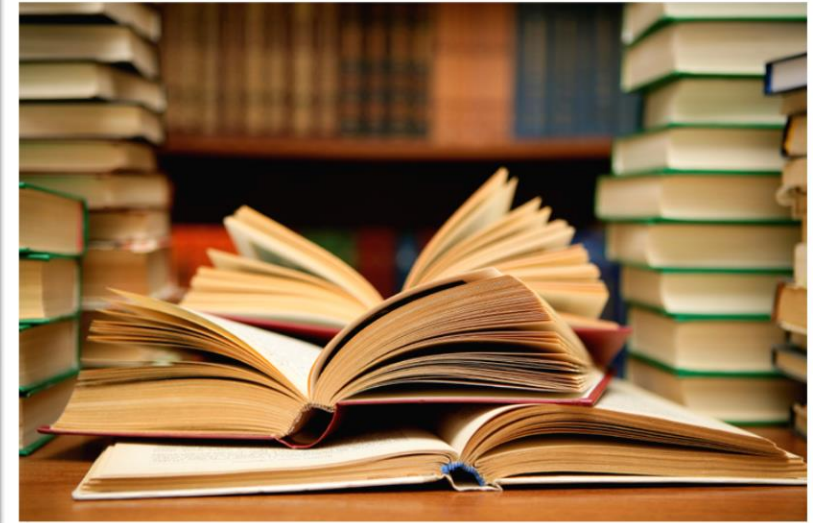
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Composing music + playing the  
piano



Boardgames, D&D



Reading  
(not just the arXiv)



# About *me*

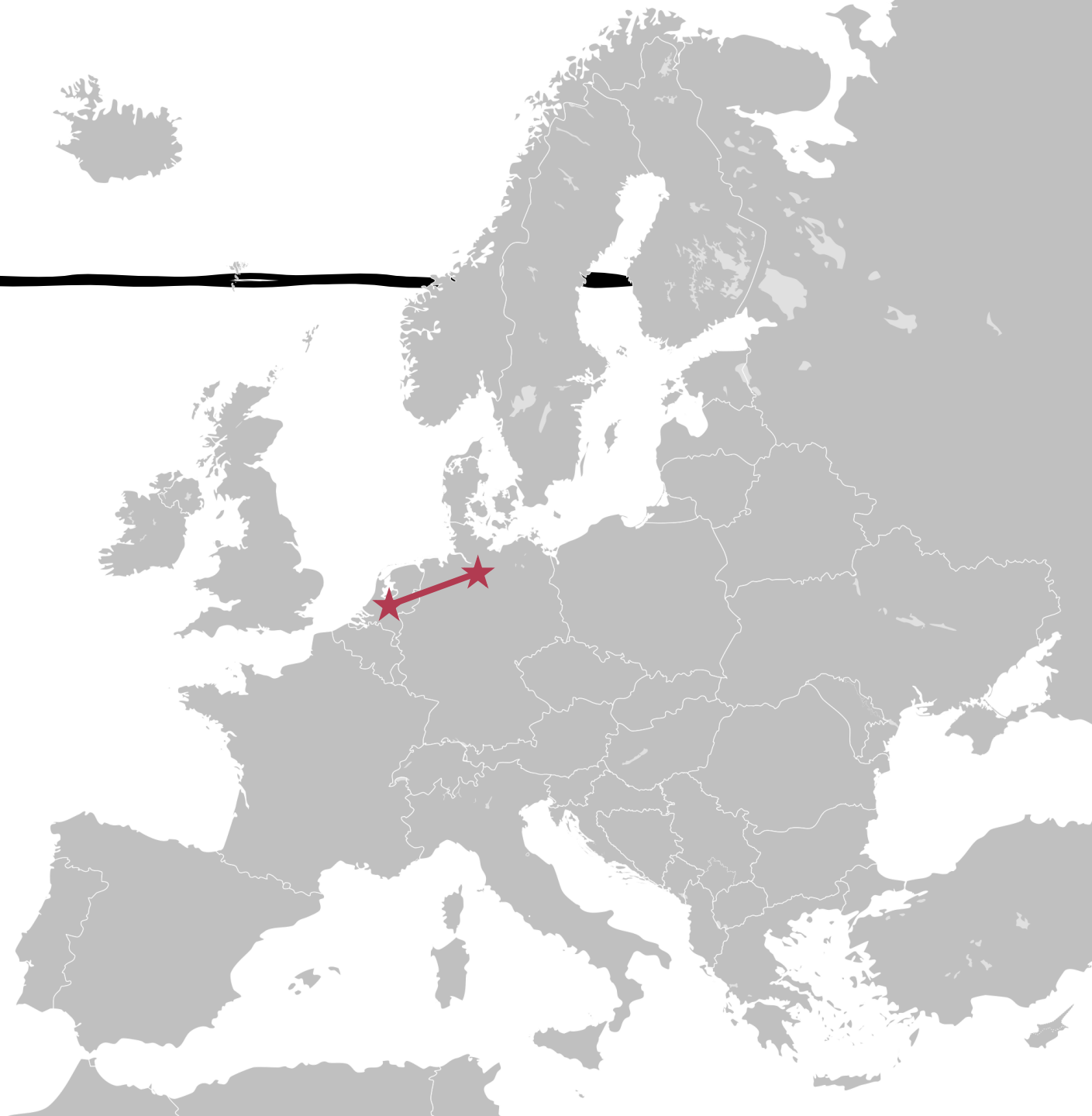
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- Started 1<sup>st</sup> postdoc in Hamburg on 01-11-2024
- Group of Timo Weigand



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# Research Overview

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String Theory

String compactifications

Low-energy EFT's

Swampland program

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- Allowed deformations of Calabi-Yau manifolds?
- Finitely many?
- What happens in **extreme** limits?



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Swampland program

## Geometry

Algebraic geometry

Asymptotic Hodge theory

Tame geometry

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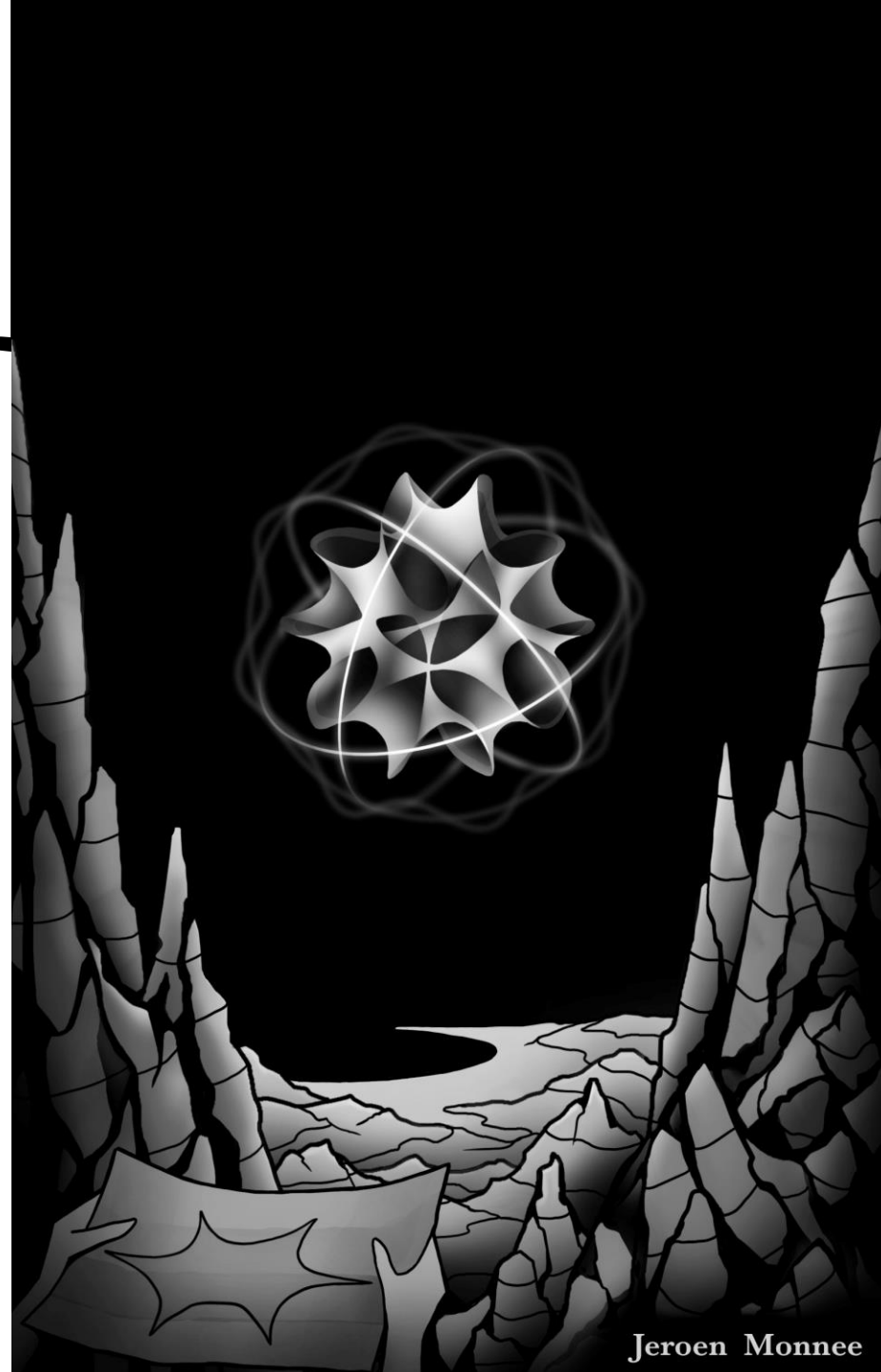
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## Integrability

Deformations of classical  
two-dimensional non-  
linear sigma models



*Thank you!*

