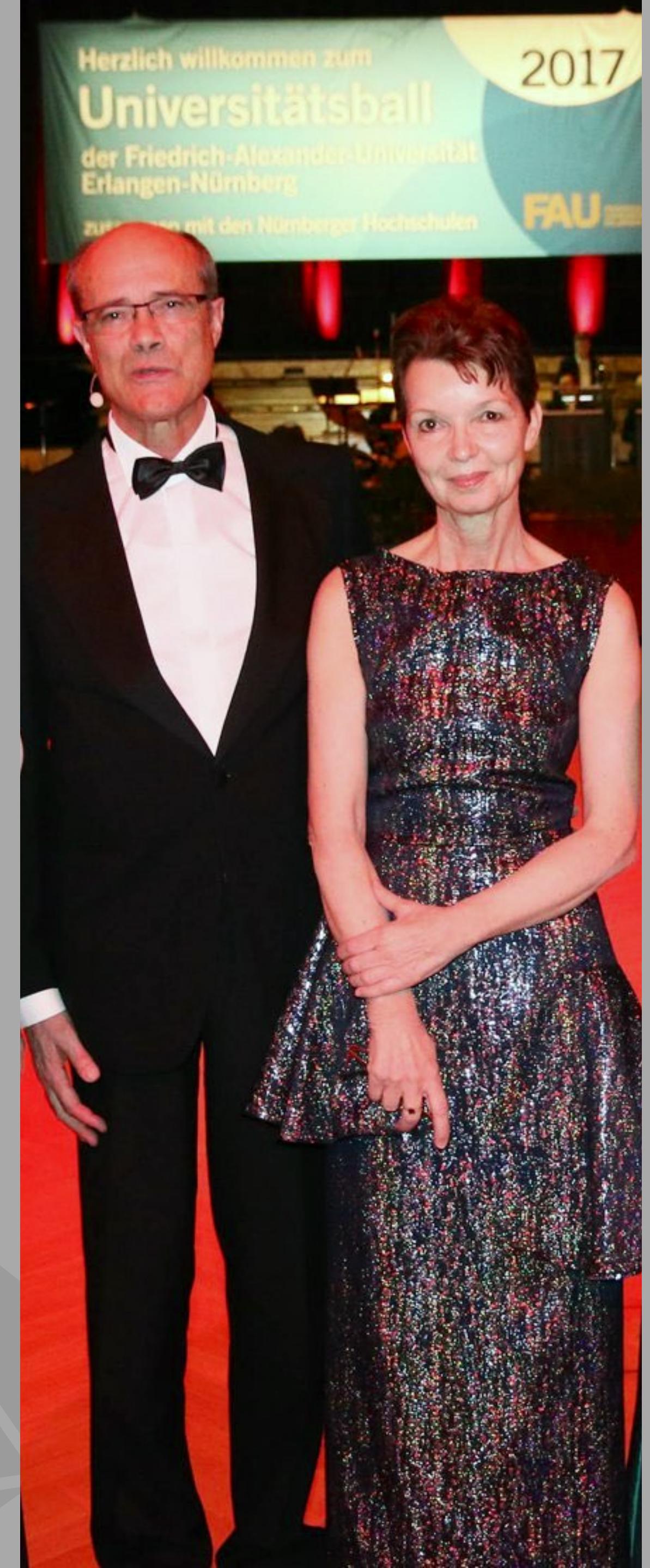


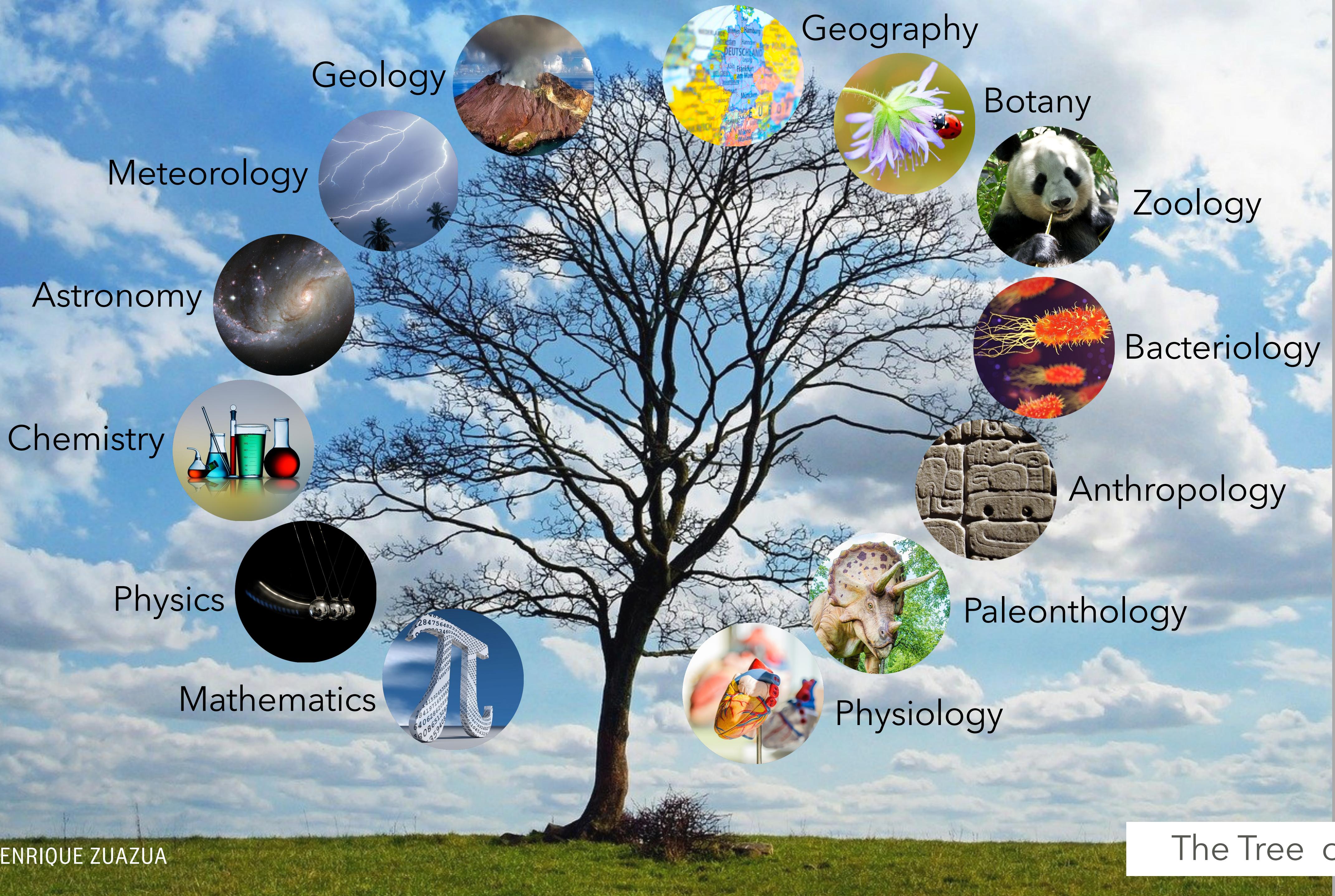
A tribute to
Günter
Leugering
2021

A mathematician who is not also something of a poet
will never be a complete mathematician

Karl Weierstrass

Günter's tree





A tribute to

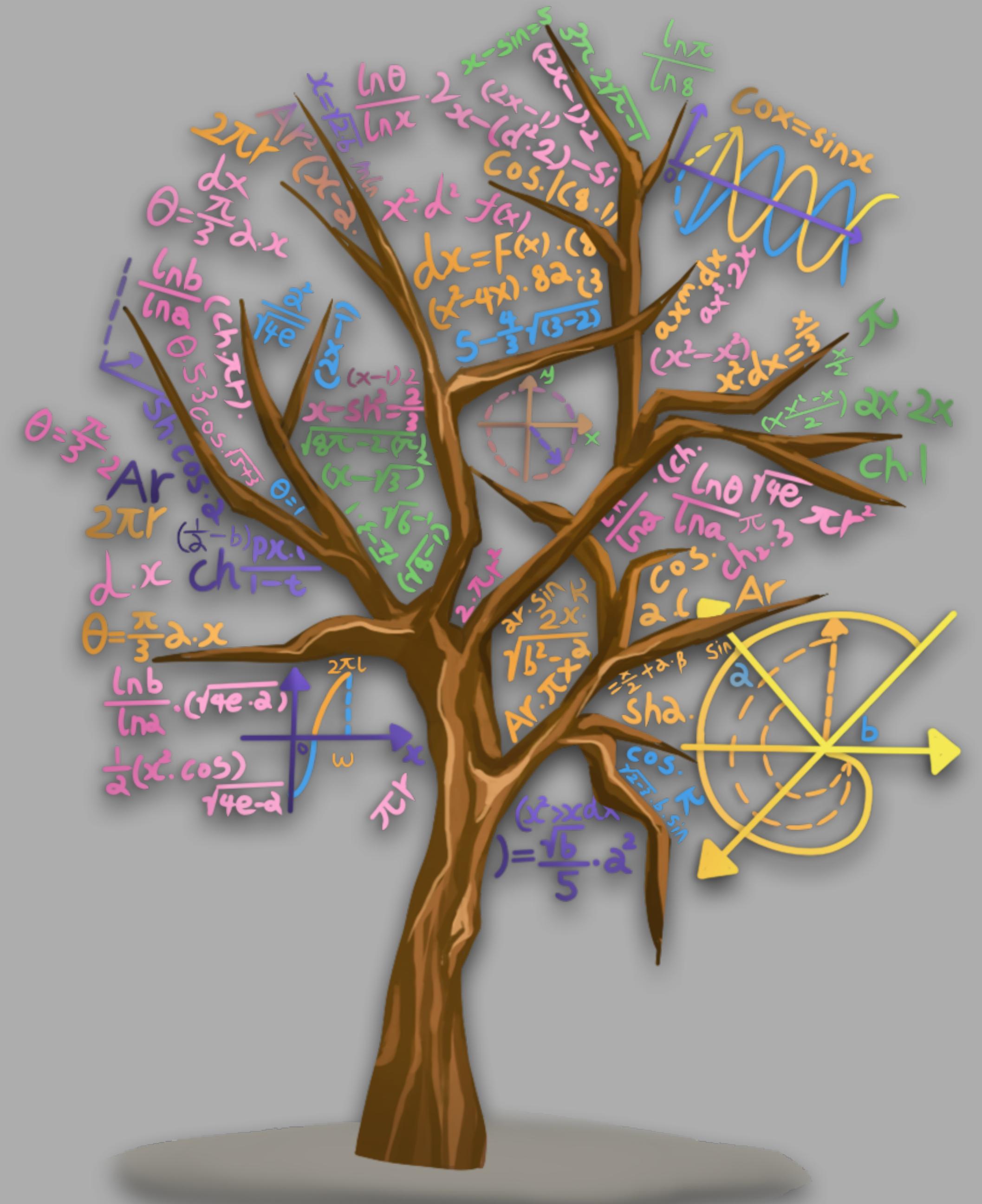
Günter
Leugering

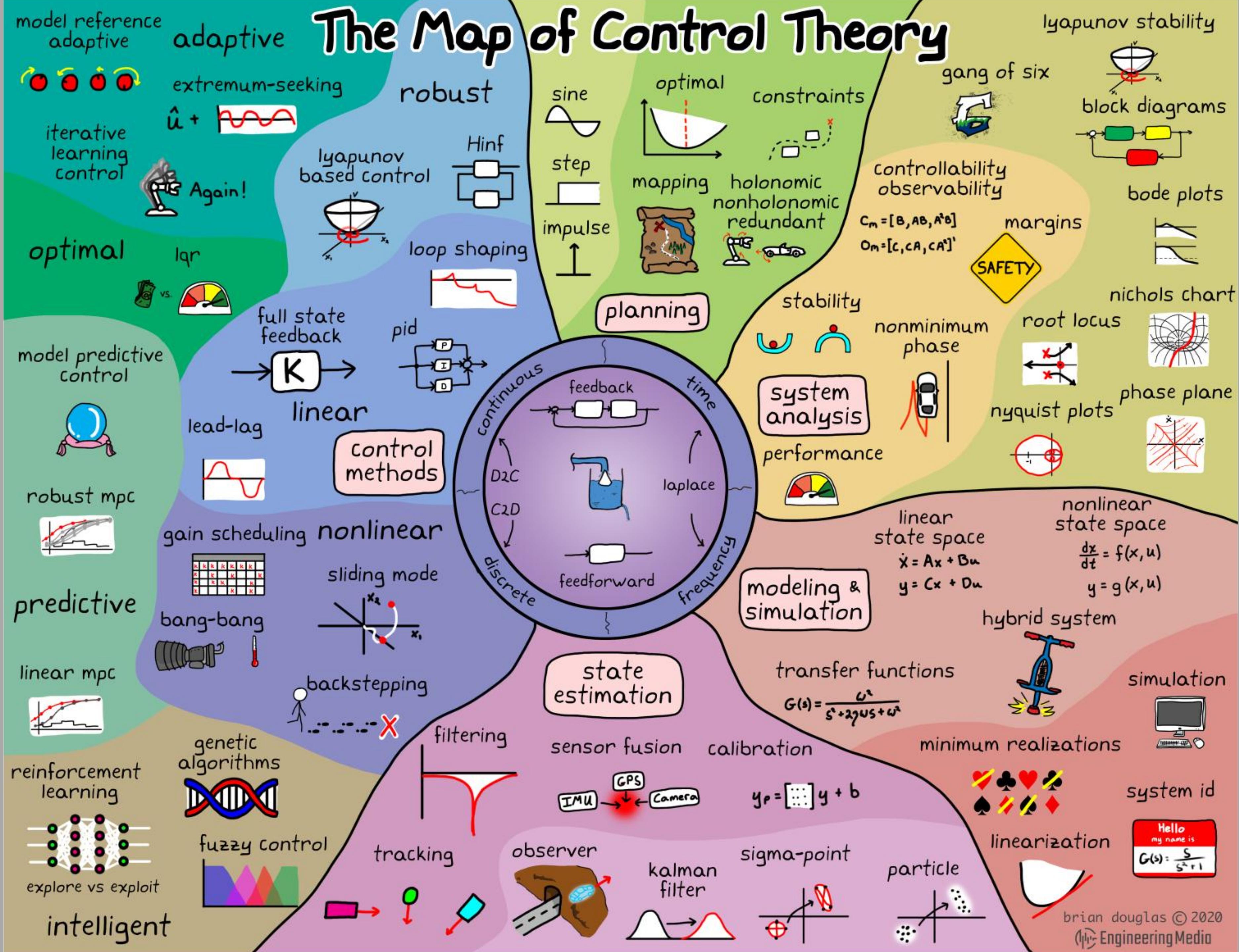
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Tree of Science

ENRIQUE ZUAZUA







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⌚ Anticipation

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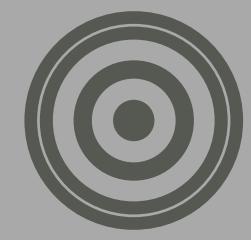
2021

*J. Math. Pures Appl.,
71, 1992, p. 561 à 587*

A DECOMPOSITION METHOD FOR INTEGRO-PARTIAL DIFFERENTIAL EQUATIONS AND APPLICATIONS

By G. LEUGERING (*)

ABSTRACT. — We show that the generator of the semi-group associated with an integro-partial differential equation can be decomposed by applying a similarity transform. This transformation accomplishes a spectral decomposition and has, therefore, various important implications from a control-theoretic point of view. Examples are given, including certain singular and regular-type viscoelastic materials as well as thermoelastic models of beams.



Persistent



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Enthusiast

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Generous

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 Distinct

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Networker

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Holistic

Systems
& Control:
Foundations
& Applications

J. E. Lagnese
G. Leugering
E. J. P. G. Schmidt

Modeling, Analysis
and Control of
Dynamic Elastic
Multi-Link Structures

Springer Science+Business Media, LLC

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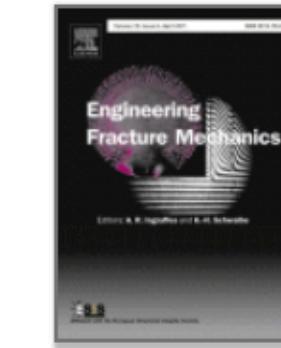
Günter
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2021



Engineering Fracture Mechanics

Volume 78, Issue 6, April 2011, Pages 944-960



Towards optimization of crack resistance of
composite materials by adjustment of fiber shapes

M. Prechtel ^a✉, G. Leugering ^a✉, P. Steinmann ^b✉, M. Stingl ^a✉

 Springer Link

Published: 25 November 2017

MIP-based instantaneous control of mixed-integer PDE-constrained gas transport problems

[Martin Gugat](#), [Günter Leugering](#), [Alexander Martin](#), [Martin Schmidt](#)✉, [Mathias Sirvent](#) & [David Wintergerst](#)

[Computational Optimization and Applications](#) **70**, 267–294(2018) | [Cite this article](#)



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ESAIM: PROCEEDINGS,
VOL. 8, 2000, 95-105
CONTRÔLE DES SYSTÈMES GOUVERNÉS
PAR DES ÉQUATIONS AUX DÉRIVÉES PARTIELLES
<http://www.emath.fr/proc/Vol.8/>

On exact controllability of generic trees

Günter Leugering*

Enrique Zuazua†

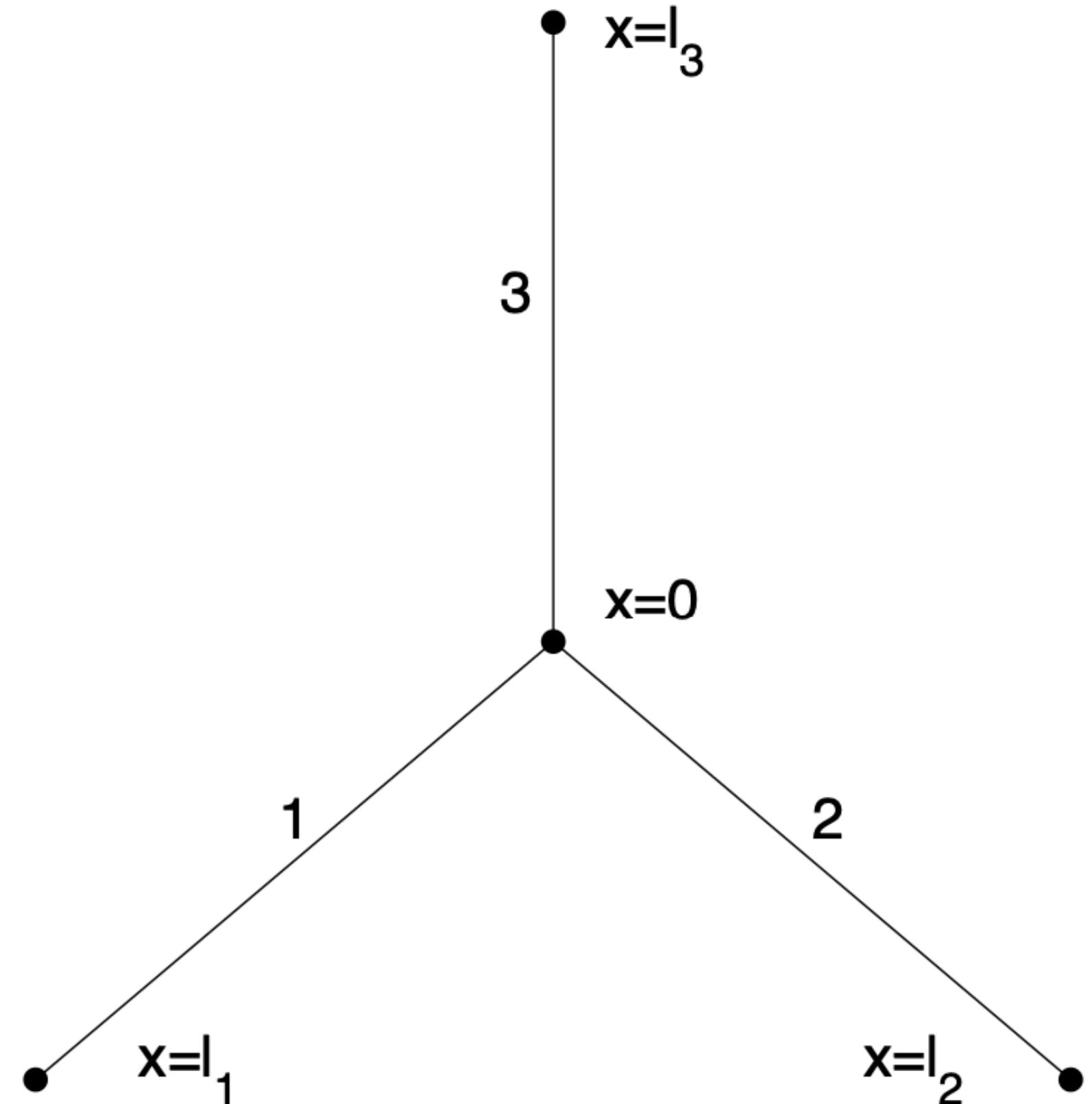
d'Alembert and Fourier meet again in Günter's tree

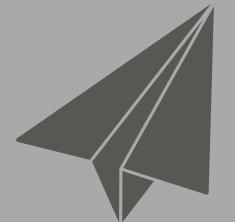
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Lemma 1. Let f be a distribution and $a \in \mathcal{A}_\epsilon, d(a) \geq 2$. Then $D_a^- f, D_{1-a}^- f \in L^2(\mathbb{R})$ imply $f \in H^{-1-\epsilon}(\mathbb{R})$.





Intrepid

A tribute to

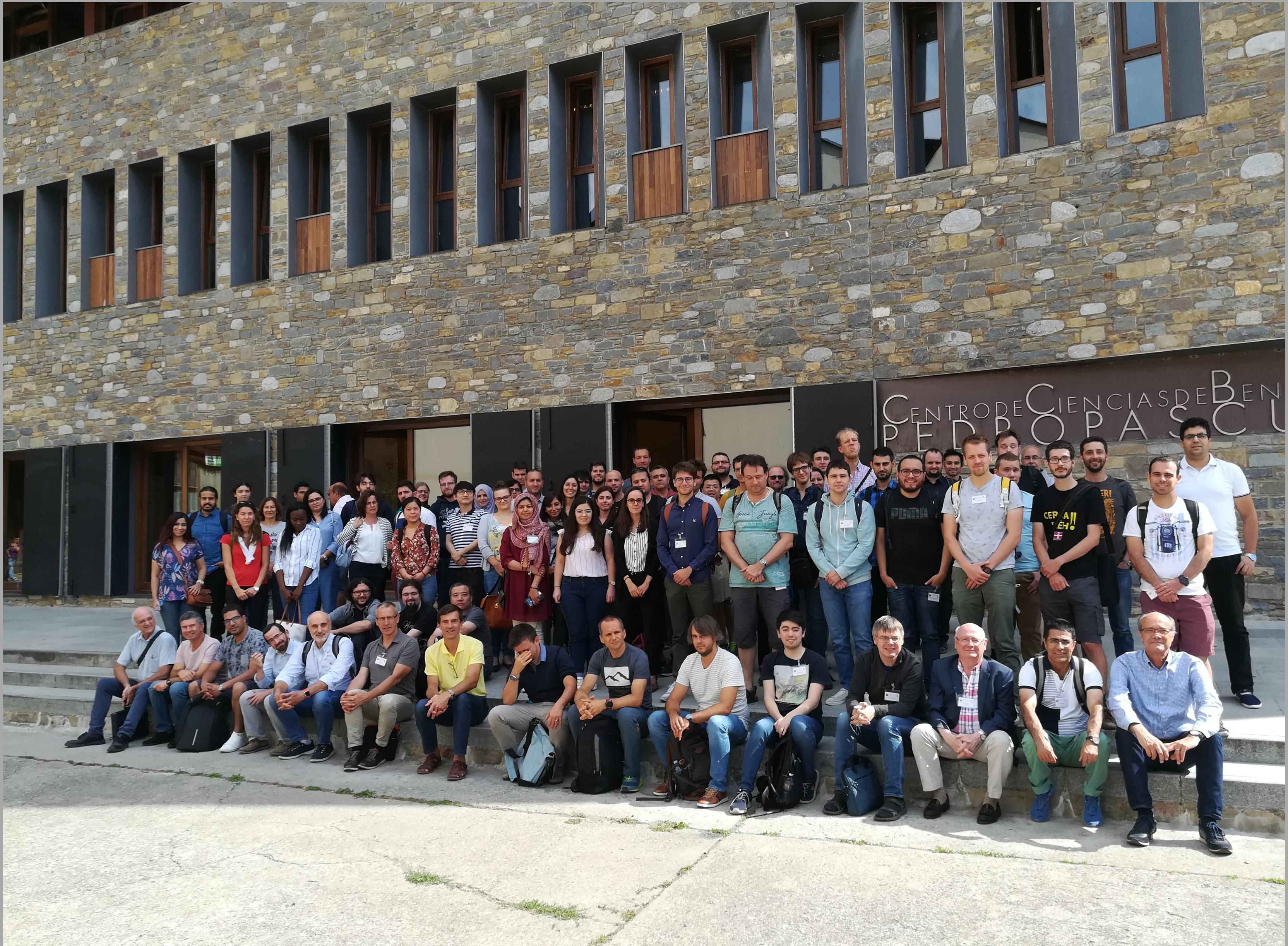
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Durable



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Reliable

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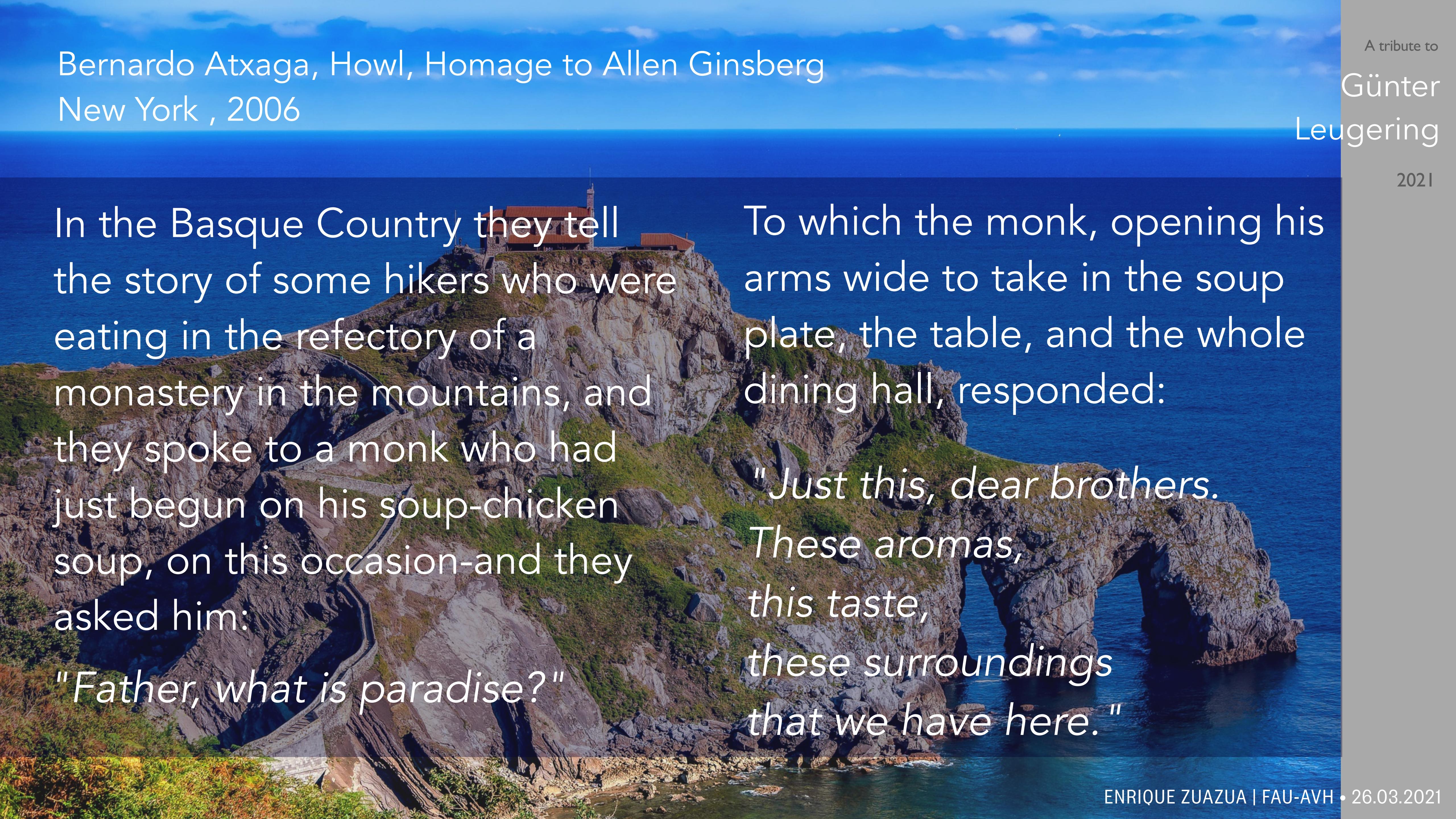
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Bernardo Atxaga, Howl, Homage to Allen Ginsberg
New York , 2006

A tribute to

Günter
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A scenic coastal landscape featuring a rugged cliffside. On the top left of the cliff, there's a small, traditional-style building with a red roof, possibly a lighthouse or a hermitage. A paved path or road winds along the base of the cliff. The ocean is a deep blue, and the sky is clear with some wispy clouds.

In the Basque Country they tell
the story of some hikers who were
eating in the refectory of a
monastery in the mountains, and
they spoke to a monk who had
just begun on his soup-chicken
soup, on this occasion-and they
asked him:

"Father, what is paradise?"

To which the monk, opening his
arms wide to take in the soup
plate, the table, and the whole
dining hall, responded:

*"Just this, dear brothers.
These aromas,
this taste,
these surroundings
that we have here."*