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BAMBOO
CONSTRUCTION

Bamboo

Lightweight structures in Urban Area



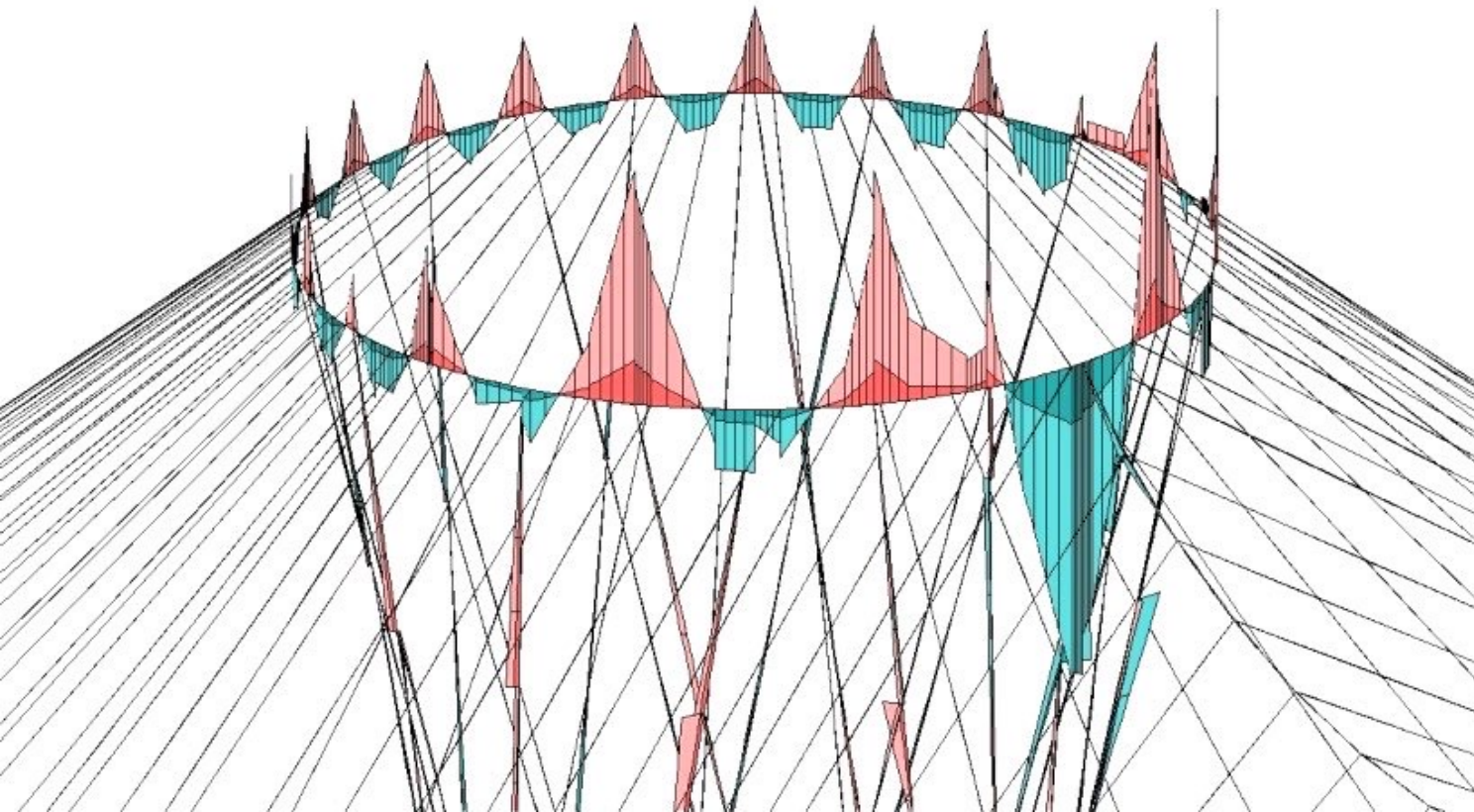
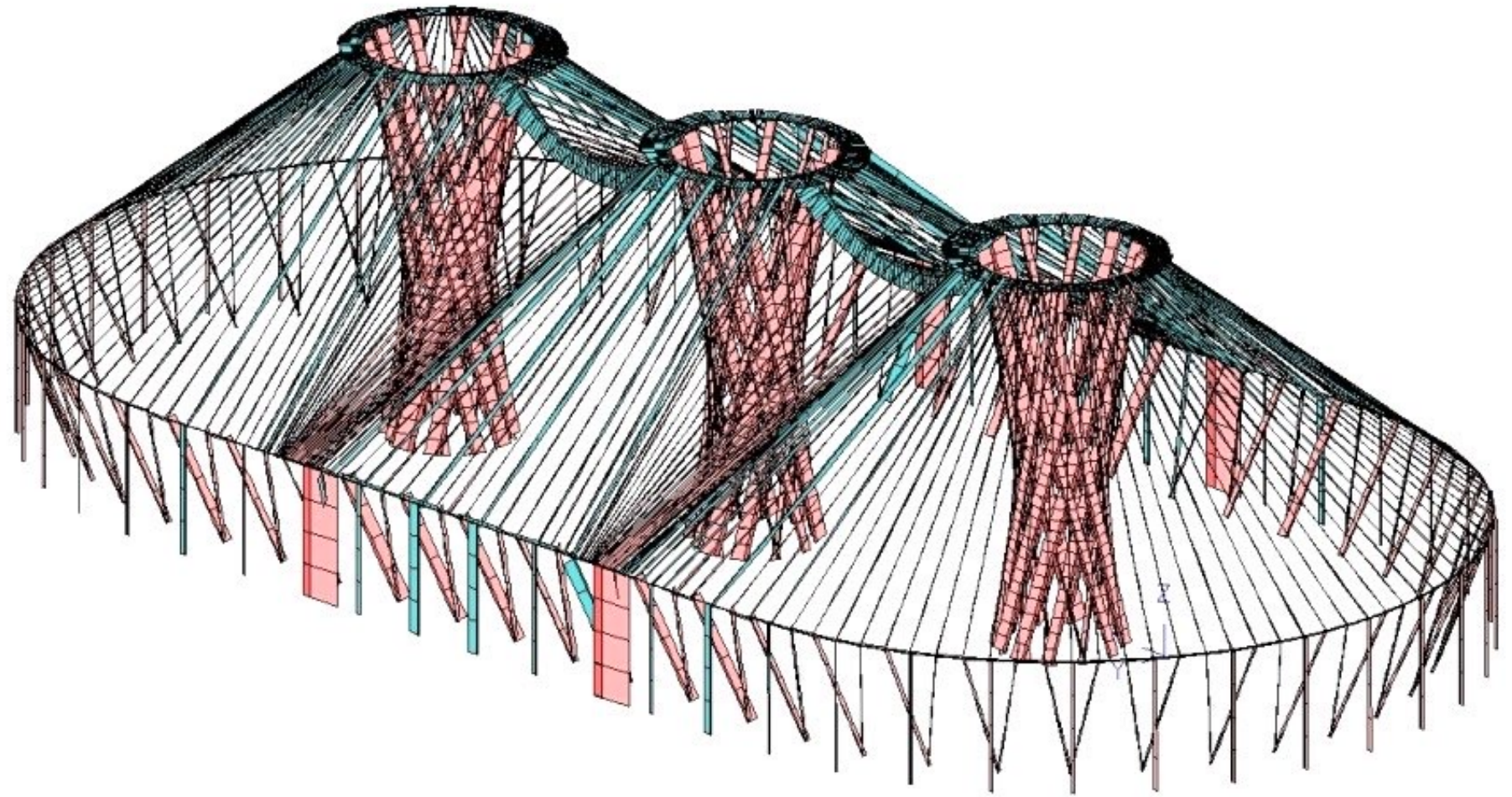
Nature as inspiration



“ Three Mountains ”

Mortar injection 10-folds joint capacity





**Structural
Analysis** by Dr.
Althoff, Erfurt
University

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**Sky Light
Effects
enhanced
by natural
beauty**

Hyperbolico.



THE ARC

The Arc at Green School is a series of bamboo arches spanning 19 meters, interconnected by anticlastic gridshells which derive their strength from curving in two directions.





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THE ARC



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THE ARC



First Bamboo structure in USA

Mc Kee Botanical Gardens,
Construction permits by
City Hall Vero Beach.
survived Huracan Rita in
2004

Florida.



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Ecuador traditional House
Reconstruction,
after earthquake 2016



Prefab Storage hall in Palenque, Mexico



**Barn style,
spaced columns
and beams.**





**House Bridges
give
Maximum
benefit on
minimal
maintainence**



House bridge

30 m, 18. Century



Bamboo bridge,

40m, 21 Century

Eco-engineering con giant Grass



EcoLodge in
Sumatra,
Bamboo in its
native
environment.





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Architecture is
resembling a natural
Growth pattern.

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Pinboo flooring made with bamboo splits, glue-free





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20 meter, Arch + Cable Stade
Bridge, Bali, Indonesia 2008

Sibang Bridge at Greenschool



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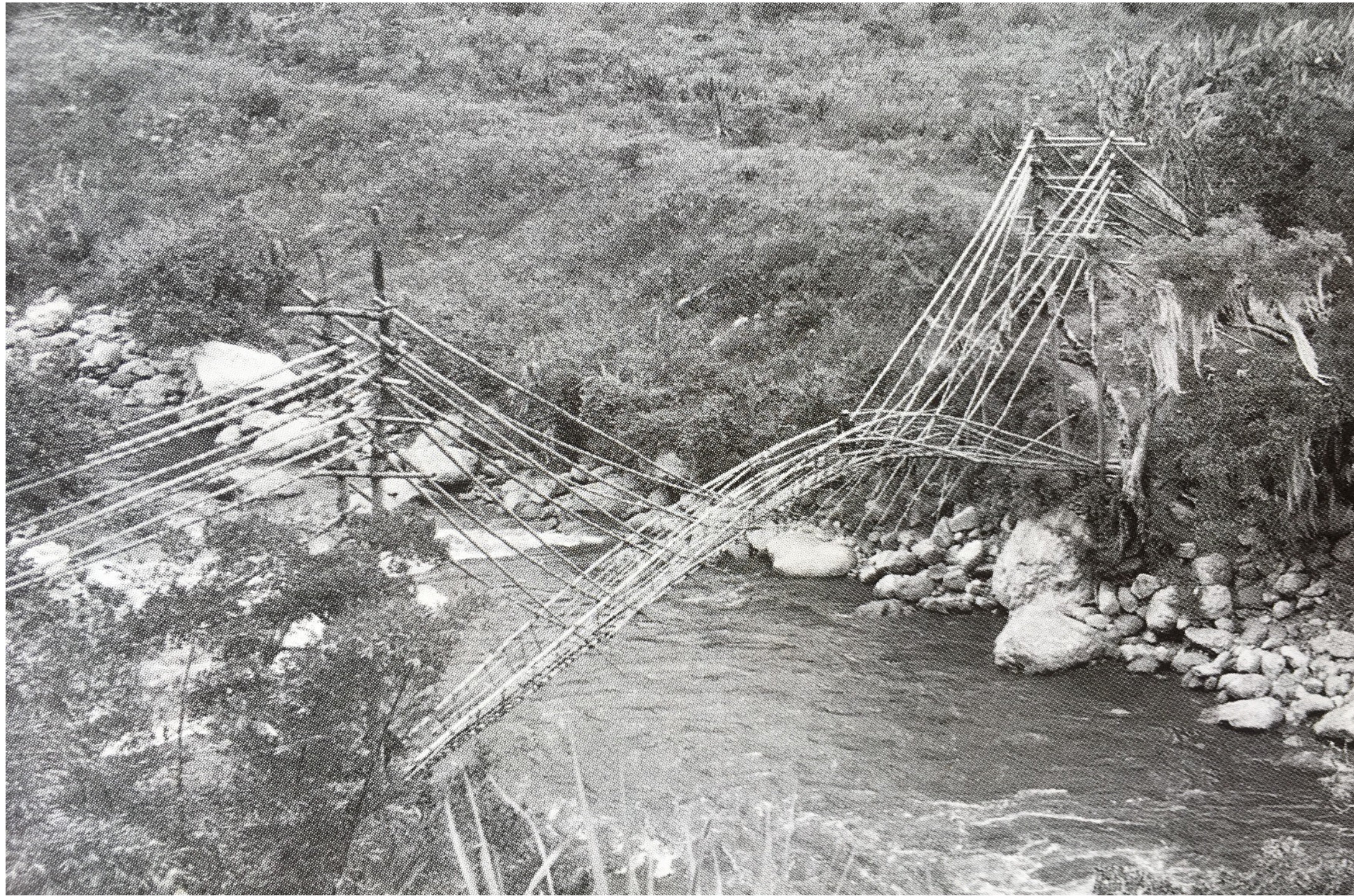
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Arch and Tensile poles as Bridge concept

Concept





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**Bamboo
Sculpture in a
modern city
Cucuta,
Colombia**

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Easy lifting procedures due to **lightweight**



“Grouting”, 10x folds the joint capacity





PinBoo, glue free Flooring

Official Load test with a
total of 450kg / m²





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Natural Curves bamboo “6
Packs”

Modern Design & High Tech Materials



Bridge Trusses are
pre-assembled and
pushed over the river

Lifting
procedure
with a crane, or
“by hand”,
traditional style.





Scissor Truss, 30m



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Grouting



“Protection by Design”

with bamboo shingles





**Orang Utan Haven,
Scissor Bridge Truss, 30
m, Sumatra, Indonesia**

Concept: Triangle

Pinboo planks for Flooring 4 cm thick.
Skylight and the free swinging wings



40

**conus
joints
for
space
frames**

Mero system, since 1936

**Space
frames,
modular
prefabrication**



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Orquids
Botanical Gardens,
Mexico

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Botanical Gardens

Chapultepec Mexico



**Grid shell,
(20 x 30m)
Ghana**

This giant grass
is sustainable,
appealing,
embodies sun
energy and it is
as versatile as
any wood.



Shells with
curved
bamboo,
*Bambusa
vulgaris*.



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mobile **Yurt**, for Parks and Events



Playa Viva,
Guerrero ,
México





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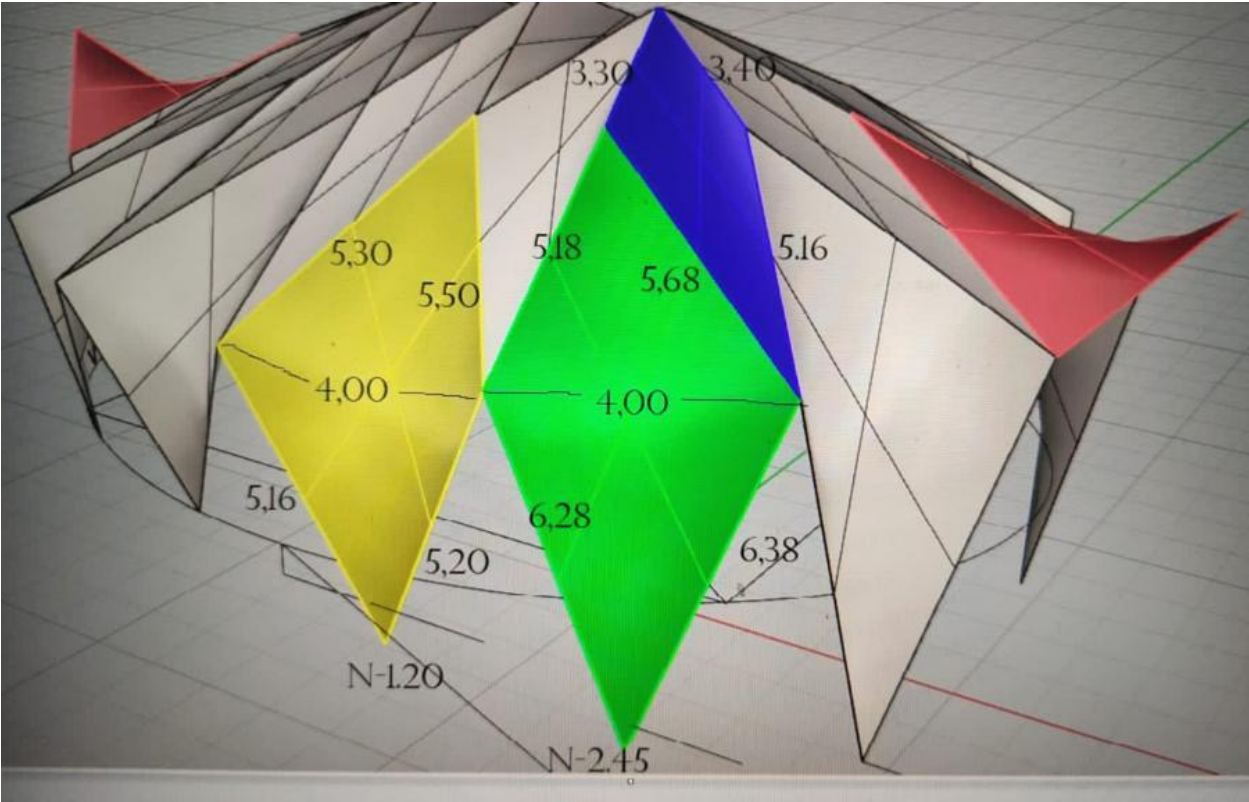


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Terra
Mulungu,
retreat
center,
Guararema,
Brazil









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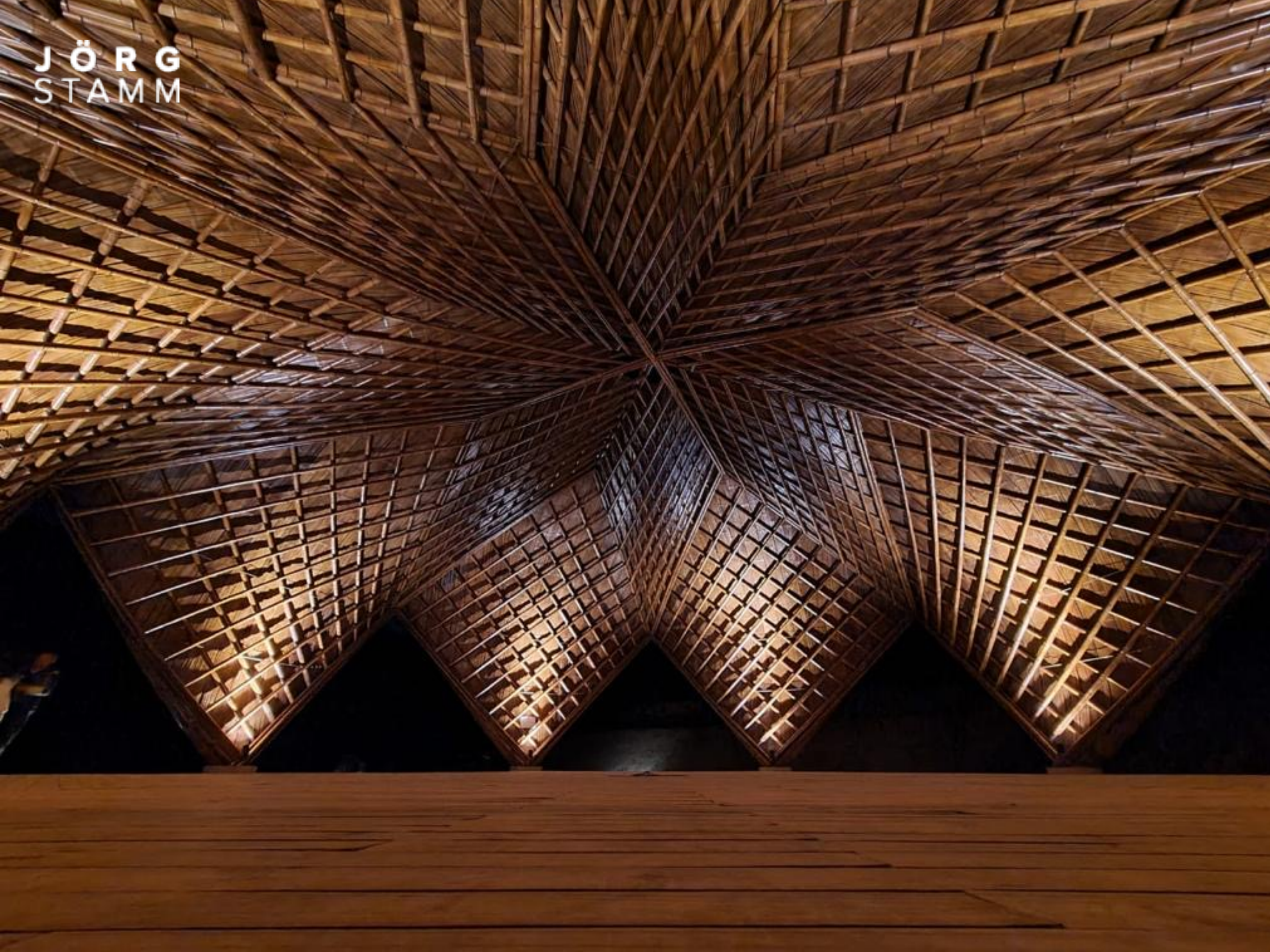


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Thank You



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