



Dr. Ingrid Daubechies

Duke University

USA

Ingrid Daubechies has a Ph.D. in Theoretical Physics. She has spent most of her career on bringing mathematical techniques and analysis to bear on applications not only from physics, but also in signal processing, brain imaging, geophysics, biological morphology, and art conservation and analysis, as well as on research in mathematics.

She is presently a professor at Duke University. During the isolation caused by the pandemic, she has spent part of her time on the realization, together with 23 other mathematicians and artists, of an art installation that seeks to communicate the wonder, the beauty and the whimsy of mathematics -- see mathemalchemy.org

Title: Computational methods to study morphological shapes

Abstract:

The presentation will review work of a collaboration of applied mathematicians and biological morphologists, with some recent results.