



PIMS 25th Anniversary Network-Wide Colloquium



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Ingrid Daubechies, Duke University

Discovering low-dimensional
manifolds in high-dimensional
data sets

Abstract: Diffusion methods help understand and denoise data sets; when there is additional structure (as is often the case), one can use (and get additional benefit from) a fiber bundle model.

Biography: Ingrid Daubechies is a Belgian Physicist and Mathematician, and one of the leaders in the area of wavelets, a part of applied harmonic analysis. Wavelets are widely used in data compression and image encoding. Indeed, a wavelet pioneered by Daubechies is the basis of the standard for digital cinema.

Ingrid Daubechies has held positions at the Free University in Brussels, Princeton University, and is currently James B. Duke Professor at Duke University. She is a Member of the National Academy of Sciences and of the National Academy of Engineering and a Fellow of the American Association for the Advancement of Science. Ingrid Daubechies has received many awards, including the Leroy P. Steele Prize for Seminal Contribution to Research of the American Mathematical Society.

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