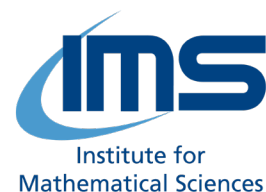




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# Indra's Pearls: A Mathematical Adventure

## Abstract

This talk is based on the book of the same title by David Mumford, Caroline Series and David Wright. It tells the story of the authors' computer explorations of some simple but repeated operations on complex numbers, whose interactions produce delicate and beautiful fractals. We will explain the simple geometry and algorithms which generate the pictures, behind which lies a wealth of mathematical meaning. Some of the discoveries explained in the book feed into current research. More pictures and software for generating your own designs can be found on the web.

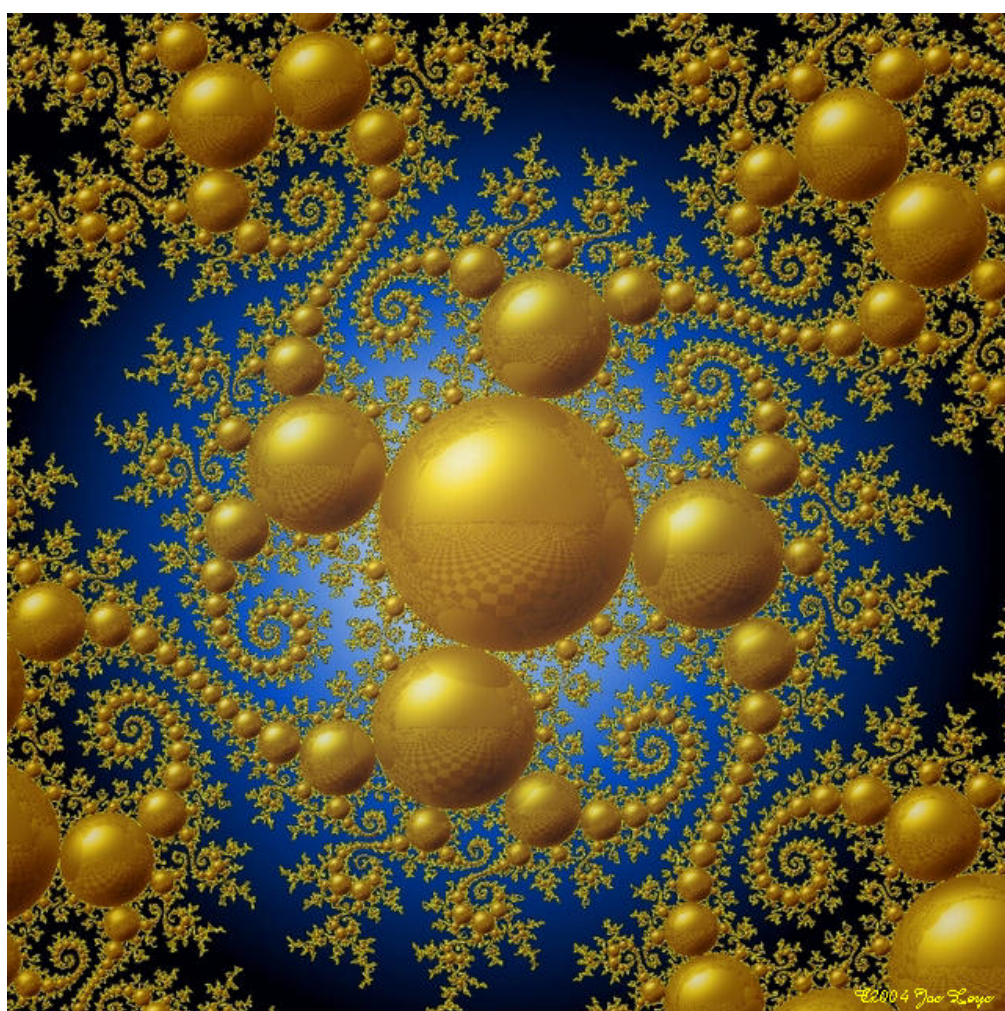


Image by [Jos Leys](#)



**Caroline Series**  
University of Warwick

## Biography

Caroline Series is Professor Emeritus of Mathematics. Her research interest areas are in Hyperbolic 3-manifolds, Kleinian groups and Dynamical systems. She is a Fellow of the Royal Society (FRS), the American Mathematical Society and of the Institute of Mathematics and Applications. She was President of the [London Mathematical Society](#) 2017–2019. She was a founder member of the organization [European Women in Mathematics](#) and also the first vice-chair of the [International Mathematical Union's Committee for Women in Mathematics](#).

**THURSDAY, 28 JANUARY 2021**

**6.00 PM (SG Time)**

**10.00 AM (GMT Time)**

**ONLINE LECTURE**

This event will last about an hour.

**EVENT IS FREE AND OPEN TO THE PUBLIC**

**REGISTRATION IS REQUIRED**

\*Registration will cease 24 hours prior to event commencement.

ZOOM Link will be provided after registration is received and processed.



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