

Citation for Ana Ros Camacho (Anne Bennett Prize)

Short citation

Dr Ana Ros Camacho of Cardiff University is awarded the Anne Bennett Prize for her groundbreaking work on categorical proofs of the Landau–Ginzburg/Conformal Field Theory correspondence and her tireless dedication to the advancement of women in mathematical physics.

Long citation

Dr Ana Ros Camacho of Cardiff University is awarded the Anne Bennett Prize for her work on categorical proofs of the Landau–Ginzburg/Conformal Field Theory correspondence and her dedication to the advancement of women in mathematical physics.

An expert in quantum algebra and mathematical physics, Ros Camacho’s work in this small but dedicated field is groundbreaking – she lifted the class of A-type correspondences from an isomorphism of algebras (fusion rings) to an equivalence of braided tensor categories. This has set the bar for further progress in the field and simultaneously emphasises just how big the gap is between what we know and what we can prove.

In addition to these research accomplishments, Ros Camacho has been a tireless promoter of women in mathematics and mathematical physics.

Aside from mentoring countless young female scientists and organizing many other local and global EDI activities through her career, she led the creation of the highly successful Women in Mathematical Physics network in 2019, facilitating collaborations between junior and senior women in the field through two Banff International Research Station (BIRS) workshops in 2020 and 2023. Recently, she has brought this network to a new level by co-founding the Association of Women in Mathematical Physics (2023), an independent non-profit society dedicated to advancing the aims that Ros Camacho exemplifies.