Title:

The Near, the Far and the Very Near: modelling the panchromatic SEDs of galaxies

Abstract:

Radiative transfer modelling of the panchromatic SEDs of galaxies is a powerful tool in deriving fundamental intrinsic parameters of galaxies, like star-formation rates and histories, dust masses and opacities, as well as spatial distributions of stars of all ages and of dust. With the advent of new observing capabilities like JWST and Euclid, we enter an era of precise and accurate astrophysics, only possible through self-consistent approaches. In this talk I will review past and recent progress in radiative transfer modelling, starting from nearby edge-on and face-on galaxies, moving into statistical studies, and ending very near, in our own Milky Way, in an attempt to understand the synergies between our very close Universe and the distant one.