Dust around evolved stars

Ambra Nanni (National Centre for Nuclear Research, Poland)

It is well established that dust formation around evolved stars plays a fundamental role in their evolution, being in large part responsible for the development of stellar winds and mass-loss, and in shaping their emerging spectra by absorbing photons from their photosphere and re-emitting them at longer wavelengths. Evolved stars are also important dust factories in the Universe that enrich the interstellar medium with dust grains. Despite the importance of dust build-up around evolved stars, many questions related to this process and the dust properties remain unanswered. In this talk I will review what we learned from spatially resolved observations of evolved stars, and recent advancements in theoretical modelling and the challenges that lie ahead.