Prospective on future studies of the interstellar medium in galaxies near and far.

Pierre Cox*[1]

[1]Institut dÁstrophysique de Paris – Institut national des sciences de lÚnivers, Sorbonne Universite, Centre National de la Recherche Scientifique : UMR7095, Institut national des sciences de lÚnivers – France

Abstract

In this review, I will present some of the major recent observational results obtained on the interstellar medium in galaxies, from local starbursts to the infrared luminous galaxies in the early universe. These results have been made possible in the last decade due to the increased capabilities offered by recent facilities, most notably ALMA & NOEMA. Based on these results, I will highlight current issues and fundamental questions in the study of the ISM in galaxies and explore how future enhancements or new observatories will help to make further significant progress.

*Speaker