

Colloquium

SFB 956

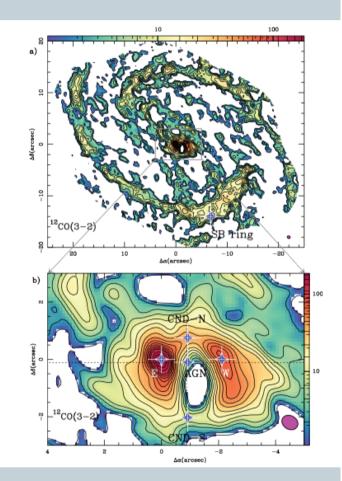
Conditions and Impact of Star Formation

11 May 2020

Monday 3:30 pm

Physikalische Institute Köln

Video Stream Host: Peter Schilke



Serena Viti

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Characterizing the Dense Molecular Gas in Galaxies

It is now well established that chemistry in our Milky Way as well as in external galaxies is rich and complex. In this talk I will show how molecules play a key role in determining the characteristics of our own Galaxy, as well as nearby galaxies. By using examples from different regions of space, from interstellar and star forming gas, to extragalactic shocked regions, I will demonstrate how molecules can be ideal probes of the nature of the dense gas and hence help us to describe the different phases of the neutral gas in galaxies. Finally I will present a new approach for theinterpretation of molecules using Bayesian and Machine Learning techniques.

